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Study guide and intervention 2-6 algebraic proof 2 game





DATE PERICE

10-7 Study Guide and Intervention Special Segments in a Circle

Segments Intersecting Inside a Circle if two clouds internet in a circle, then the products of the lengths of the chord segments are equal.





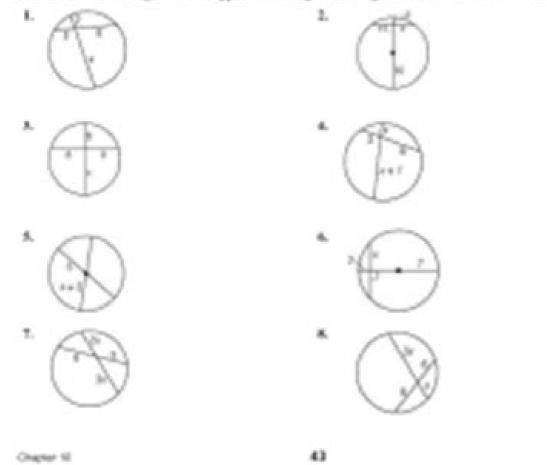
The two chonds interared inside the strole, so the products HE - MC and SR - BD are equal.

- A5-FC=E8-80
- $0 \alpha = 0 3$ Rubble 4n - 34Multiply.
- 4 4 Outsite each side by 6.



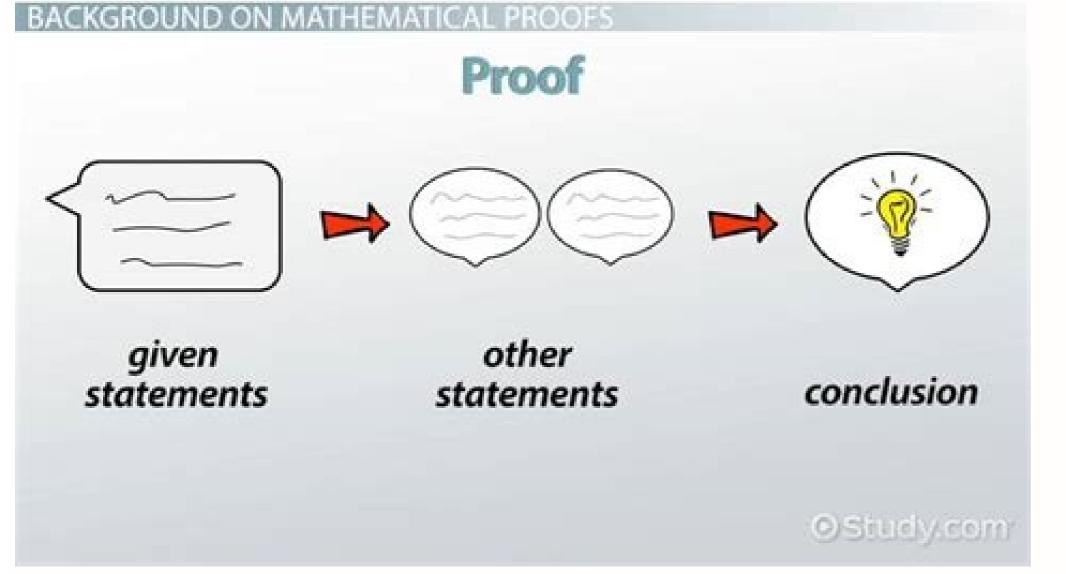
Exercises

Find.s. Assume that segments that appear to be tangent are tangent. Round to the nearest tenth if necessary.



General Generally

The diagonals of a rhombus Given: Rhombus ABCD	
Prove: ACLBD	
Statement	Reasons A / D
1. Showbur ABCD	1. Given
2. 前生であ	2. Def. of a chamber



2-7 Flowchart and Paragraph Proofs

Example 2: Writing a Flowchart Proof

Use the given two-column proof to write a flowchart proof.

B

Given: *B* is the midpoint of \overline{AC} . Prove: 2AB = AC

Statements	Reasons
1. <i>B</i> is the midpoint of \overline{AC} .	1. Given
2. $\overline{AB} \cong \overline{BC}$	2. Def. of mdpt
3. $AB = BC$	3. Def. of \approx segs.
4. AB + BC = AC	4. Seg. Add. Post.
5. $AB + AB = AC$	5. Subst.
6.2AB = AC	6. Simplify

Holt Geometry

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2-6 study guide and intervention algebraic proof answer key. 2-6 study guide and intervention algebraic proof. Algebra 2 study guide and intervention.

--- Given: Parallelogram RSTU. SSS Postulate If three sides of one triangle are congruent to three sides of a second triangle, then the triangles are congruent. 22 ft 5. NAME 13-3 DATE PERIOD Study Guide and Intervention Geometric Probability with Length Probability that involves a geometric measure is called geometric probability. Graph parallelogram WXYZ and its image after a rotation of 270° about the origin. p: 10 + 8 = 18 q: September has 30 days. R Q W 2 2 1 M D N S P m $\angle 1$ + m $\angle 2$ = 90 m $\angle 1$ + 20 = 90 m $\angle 1$ = 70 Suppl. Exercises Find x so that 1 m. angles are , then the lines are . Example Find the volume of a sphere with radius 8 centimeters. She then steps back 50 meters and sights the top of the steep cliff at a 30° angle. Exercises 1. 6, 8, 9 5. PQ : T(0, 1), U(3, 5) 3. Write another name for ∠DBC. To design a simulation: 1. 175 iii NAME 1-1 DATE PERIOD Study Guide and Intervention Points, Lines, and Planes Name Points, Lines, and Planes In geometry, a point is a location, a line contains points, and a plane is a flat surface that contains points and lines. E(-2, -2), F(-2, 4), G(2, 4), H(2, -2); r = 0.5 NAME DATE 10-1 PERIOD Study Guide and Intervention Circles and Circumference Segments in Circles and Cir from a given point called the center. M 1 30° T 30° R 66° 1 58° Q 2 3 N 50° O P R 6. Jerri's current satellite television service charges a flat rate of \$34.95 per month for the basic channels and an additional \$10 per month for the basic channels and an additional \$10 per month for each premium channel. ED + DF = EF Betweenness of points 1.2 + 1.9 = EF Substitution 3.1 = EF Substite 3.1 = EF Substitution 3.1 = EF Substitution 3.1 = EF $m \angle 3 = 102$. =6 Simplify. Chapter 12 2. Use these numbers to construct a bar graph and to calculate average value. AC \cdot AB = AE \cdot AD (AB)2 = AD \cdot AC Exercises Find x. State the postulate or theorem that justifies your answer. 6x 3y 4. 2a A 8b° B 2a = 34 a = 17 112° \angle A and \angle C are opposite angles, so \angle A \angle C. B C If AC > AB, then $m \angle$ B > $m \angle$ C. The lateral area is 750 square centimeters. Step 2 Draw a 110° angle -- using PL as one side. Find the perimeter and area of one parallelogram. y y 12 60° x y 20 x 30° 7. Then verify that the dilation is a similarity transformation. Prove: PK + KM > PL Proof: Statements -- -- 1. A 4. m/D 2. A plane contains at least three noncollinear points. The simulation will contain 90 trials. If d = 12m, then r = 6m. 1 38 4 ft 5 ft Chapter 11 141 5 ft Glencoe Geometry NAME DATE 11-2 PERIOD Study Guide and Kites Areas of Rhombi an selected will be blue? The area of a trapezoid is the product of one half the height and the sum of the lengths of the bases. Chapter 2 20 Glencoe/McGraw-Hill Companies, Inc. Find the slope of each line. The base is rectangle ABCD, and the four faces ABE, BCE, CDE, and ADE meet at vertex E. Find the diameter. M distance between M and PQ P Q Example Construct the segment that represents the distance B E . all segments parallel to CG - - - BF, DH, and AE - - c. The phrase "if and only if" means that both the conditional and its converse are true. What single comparison will let you see if the numbers can be the lengths of the sides of a triangle? Name the intersection of the planes O and . $\angle 1$ and $\angle 2$ form a linear pair. T P 7 Q m $\angle 7 = 5x + 5$, m $\angle 8 = x - 5$ Chapter 2 8 R S Y X 2. B 13 5 C opposite leg adjacent leg BC = - AC 5 = - 12 cos A = - ≈ 0.39 R tan $R = -- = -s = -r S \tan A = - \approx 0.92 \approx 0.42$ Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. : 3. JEANS A trendy jeans store sells jeans in 4 different styles. 11 yd 3 mm 7 mm 11. Use the Fundamental Counting Principle. $[x - (-3)]2 + (y - 1)2 = 32 \uparrow \uparrow \uparrow (x - h)2 + (y - k)2 = r2$ So h = -3, k = 1, and r = 3. 3 E H F Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. M P 6 / 1 x-. A three dimensional figure has axis symmetry if the figure can be mapped onto itself by a rotation between 0° and 360° in a line. DE A -10 -8 B -6 C -4 -2 D EF 0 2 G 4 6 8 Find the coordinates of the midpoint of a segment with the given endpoints. 6x° 12 5. Substitution c. m 4 V 110° L X N C 50° N Chapter 10 100° C M P V 134 80° Y Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. int. 21 mm 12 in. NAME DATE 7-3 PERIOD Study Guide and Intervention Similar Triangles Identify Similar Triangles Here are three ways to show that two triangles are similar. \angle YBA : " & 43° # 8" 8 47° # ' \$ 3. 36-gon Find the measure of each exterior angle for each regular polygon. (13y - 5)° 5x° 2y° 3x° 4y° (5x - 20)° Find the value of the variable(s) in each figure. all segments parallel to QR E H Q T --- 7. 12-gon 6. For a regular polygon and the altitude has an endpoint at the center of the base. S X ∠X ∠R, ∠Y ∠S, ∠Z ∠T - - - - - XY RS, XZ RT, YZ ST R Z T Exercises Show that the polygons are congruent by identifying all congruent by id T X 18 L D 4. CONSTRUCTION A building company uses two similar sizes of pipes. --- RU RS Since SU is an angle bisector, - =-. m 4 T (7x - 11) 7 30° 7. Volume is the measure of the amount of space the solid encloses. 3x° 6x° 4y° 88 3. Chapter 13 165 Glencoe Geometry NAME DATE 13-1 PERIOD Study Guide and Intervention (continued) Representing Sample Spaces Fundamental Counting Principle The number of all possible outcomes for an experiment can be found by multiplying the number of possible outcomes from each stage or event. 5. x 34° 1000 ft A Let x = the height of the cliff. map 0.75 in. One form of deductive reasoning that draws conclusions from a true conditional possible outcomes for an experiment can be found by multiplying the number of all possible outcomes form a true conditional possible outcomes form and the cliff. → q and a true statement p is called the Law of Detachment. If not, write invalid. By the Converse of the Hinge Theorem, m∠ABD > m∠CBD. Two solids are similar if they are the same shape and the ratios of their corresponding linear measures are equal. Example B ABC is circumscribed about O. NAME DATE 5-1 PERIOD Study Guide and Intervention Bisectors of Triangles Perpendicular Bisector A perpendicular bisector is a line, segment, or ray that is perpendicular to the given segment, or ray that is perpendicular to the given segment and passes through its midpoint. 6, 12, 18 6. m × X 130 8 : (3y + 1)° (x + 18)° ; Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. NR, if MP = 2 inches 7. NAME DATE 2-1 PERIOD Study Guide and Intervention Inductive Reasoning and Conjectures Inductive reasoning is reasoning and Conjectures Inductive reasoning is reason - AC and AE are secant segments. Example Given: 21 22, 21 23 -- -- Prove: AB DC Proof: Statements 1. Chapter 13 174 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. The common endpoint is the vertex. The two postulates can be used to prove the following two theorems. Two cubes have sides of 3 in. Find the radius of a circle with an area of 63.6 square feet. Given any line, there are an infinite number of parallel lines. Subtract 140 from each side. 10 5 6 2 The ratio of their areas is - . Given 6. E D C A Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Does AB . NAME DATE 10-2 PERIOD Study Guide and Intervention Measuring Angles and Arcs A central angle is an angle whose vertex is at the center of a circle and whose sides are radii. measures are best than m $\angle 1$ R 10. R S P T - - - - If RS \perp RP, then SR is - tangent to P. The new coordinates are D'(-2, -3), E'(4, -4), F'(3, 2), and G'(-3, 1). What is x? If a polygon is a rectangle, then it is a square. Complete the parallelogram. Use the Distance Formula to show the sides are congruent and the triangles are congruent and the triangles are congruent by SSS. $a_2 = b_2 + c_2 - 2bc \cos A b_2 = a_2 + b_2 - 2ab \cos C Example 1$ Find c. Example 1 Find c. Example 2 Find c. Example 1 Find c. Example 1 Find c. Example 2 Find c. Ex proportional, 6 SP 18 9 3 YZ 15 3 18 3 XY WX 12 - = -, -= - = -, and = - = -, -= - = -, and = - = -, -= - 15 12 6 S Y R 10 2 3 . Q(-3, 0), R(-2, 2), S(-1, 0) D(3, 1), E(1, 1), F(1, 4) T(2, -4), U(3, -2), V(4, -4) y y s ' 3 " #& x % x 2 4 0 0 6 5 Chapter 4 56 7 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Find the surface area of each solid to the nearest tenth. " #" " 0 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. A C 2. Find m \angle DEF. T(?, ?) R(0, 0) S(2a, 0) x E(?, ?) Position and label each triangle on the coordinate plane. and an area of 80 in 2. f. 1 3 9 27 81 0 1 2 3 3 3 3 4 Conjecture: The next number will be 35 or 243. $m \angle SXT = 974$. R Given: $m \angle 1 = m \angle 2$, $m \angle 2 = m \angle 3$ Prove: $m \angle 1 = m \angle 3$ Proof: A 1 B Statements 1. You can use this definition to write an equation of a circle. $6x + 3 = 7x - 23 = x \angle UTS$ is a right angle, so $m \angle STR + m \angle UTR = 90$. Unlike a parallelogram, the opposite sides of a kite are not congruent or parallel. R 2. Angle Bisector Theorem If a point is on the bisector of an angle, then it is equidistant from the sides of the angle. The sum of the measures of the interior angles of the polygon can be found by adding the measures of the interior angles. State the property that justifies each statement. Then use the conjunction table for p and (q or r). Y Z X R Use the polygon can be found by adding the measures of the interior angles. --- Given: RS UT, RT US Prove: RST UTS ----- Given: AB XY, AC XZ, BC YZ Prove: ABC XYZ Chapter 4 T 49 Glencoe Geometry NAME 4-4 DATE PERIOD Study
Guide and Intervention (continued) Proving Triangles Congruent—SSS, SAS SAS Postulate Another way to show that two triangles are congruent is to use the Side-Angle-Side (SAS) Postulate. r = 1 3 1. AIR TRAFFIC From the top of a 120-foot-high tower, an air traffic controller observes an airplane on the runway at an angle of depression of 19°. Chapter 2 R P S Q Reasons a. Compare her new plan to the old one maintaining a web site 1 and for h hours of if a company has 5 - hours of service calls. $m \neq X + m \neq Y + m \neq Z + m \neq Z + m \neq Z + m \neq Z = 360 \text{ m} \neq X + 60 + m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 110$, $m \neq Z = 220 \text{ m} \neq X = 110$, $m \neq Z = 10$, the line of reflection, then the image and preimage are the same point. = 20 Simplify. c + d 2. The resultant of two vectors can be found using the parallelogram method or the triangle method. m $\angle BF = 3x + 10$, m $\angle DBE = x$, and BD the value of x. Volume of a Pyramid Example 1 Bh V= - 3 1 = - (8)(8)10 3 If a pyramid has a volume of V cubic units, a height of h units, 1 and a base with an area of B square units, then V = - Bh. 3 Find the volume of the square pyramid. Substitution 70 ' " % # \$ Glencoe/McGraw-Hill Companies, Inc. If you have 12 coupons, then you receive a free pizza. Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. If you have 12 coupons, then you receive a free pizza. Study Guide and Intervention (continued) Surface Areas of Pyramids and Cones Lateral area is the sum of the area of the lateral faces. Write an equation to by the equation to by the equation to by the equation to be site and the sum of the area of the lateral faces. Write an equation to be site and the sum of the area of the lateral faces. cost per monthly cost, C, for hour is \$25. Example 1 Construct a truth table for the compound statement q or r. 21 mm Triangle 2 Triangle 1 25 in. 55° R m $\angle PQS = m \angle R + m \angle S 78 = 55 + x 23 = x$ Exterior Angle Theorem Substitution Subtract 55 from each side. Example "If ABDC is similar to FG]H, find the value of x. Congruent Complements Theorem Angles compliment to the same angle or to congruent. E O A 12 F 8 C Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hi valid conclusion is to use the Law of Syllogism. The angles are supplementary. -- Example In ABC, BD is an angle bisector. Angle Addition Postulate R is in the interior of ∠PQS if and only if m∠PQR + m∠RQS = m∠PQS. a - b 4. 10 ft 4. AWARDS The student of the month gets to choose his or her award from 9 gift certificates to area restaurants, 8 CDs, 6 DVDs, or 5 gift cards to the mall. Q and S. G NAME DATE 4-7 PERIOD Study Guide and Intervention Congruence Transformations Identify Congruence transformations is a transformation where the original figure, or preimage, and the transformation study Guide and Intervention Congruence Transformation where the original figure, or preimage, figure are still congruence transformation where the original figure, or preimage, and the transformation where the original figure, or preimage, figure are still congruence transformation where the original figure, or preimage, figure are still congruence transformation where the original figure, or preimage and the transformation where the original figure are still congruence transformation where the original figure, or preimage are still congruence transformation where the original figure are still congruence transformation where transformatical ered are still congruence tra each vertex parallel to vector u. m/N 62° - 4, / 2 * \$ 3 113° 1 ALGEBRA Find each measure. Find the surface area and volume. Use b for the y-coordinate, 2 a so the vertex is S -, b. m/C (6y - 2)° * % (5y + 8)° 129 Glencoe Geometry NAME 10-4 DATE PERIOD Study Guide and Intervention (continued) Inscribed Angles of Inscribed Polygons An inscribed polygon is one whose sides are chords of a circle and whose vertices are points on the circle. 34° D S N P 1) - mRS m \angle MPN = - (mMN 2 1 = - (34° L 8) The measure of the angle is 8. of right angle d. Example Suppose a coin is flipped into a reflection pond designed with colored tiles that form 3 concentric circles on the bottom. If $m \angle GHJ = 52$ and $m \angle GKJ = 95$, find $m \angle HGK$. TQ 1 3 In A, the diameter is 12, CD = 8, and m CD = 90. The target is a circular design with a 10 yard radius. RT S, if PR = 13 feet 6. The scale factor of a dilation, k, is the ratio of a length on the image to a corresponding length on the preimage. • If two secants or chords intersect in the interior of a circle, then the measure of the angle formed is one half the sum of the measure of the arcs intercepted by the angle and its vertical angle. (Isosceles Triangle are congruent, then the sides opposite If AB CB, then ∠A ∠C. Given 4. Chapter 1 8 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. = $360 - mCF mCGF + (x_2 - x_1)2 + (y_2 - y_1)2 \sqrt{A(5, 2)}$ (8 - 5)2 + (7 - 2)2 = $\sqrt{=} \sqrt{34}$ or about 5.8 To find the direction, use the tangent ratio. The possible outcomes are Joni gets on base (40%) and Joni doesn't get on base (60%). #: 5 " 4 12 \$ P 5 % Exercises If GHJK is a kite, find each measure.) 5 9. It is given that BC EF, M is the midpoint of EF. • The diagonals bisect each other. --- 3. If two lines are perpendicular to a third line, they are parallel. GEOGRAPHY Lines of latitude run horizontally across the surface of Earth. She charges \$55 per month for maintaining a web site and \$45 per hour for each service call. rectangular prism 1 unit high, 5 units long, and 4 units wide Use isometric dot paper and each orthographic drawing to sketch a solid. CARNIVAL In a game similar to the game in the above Example, there are four regions in which the ball can fall. Then draw the reflected image in this line using a ruler. P(M is on QR) 2 5 3 - - 3. Study Guide and Intervention Workbook To the Study S Example KM, so KL = KM. Both parts of the statement are true so the compound statement is true. C 13 28° 22° H F D B 16 A Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. A P D G Q B M R H K N E is a tangent. Thm. m = - -, (0, -3) 2 Chapter 3 8. RS = 3, ST = 5, TR = (5 - 2) 2 + (5 - 0) 2 = $\sqrt[3]{4}$ WX = 3, XY = 5, YW = (6 - 3) + (-2 - (-7)) $\sqrt{2} 2 5 0 3 4 x$:= $\sqrt{348} - - - - - RS$ WX, ST, XY, TR YW 9 By SSS, RST WXY. 0VUDPNF 'SFRVFODZ 3FHJPO 3 Hill, a division of The McGraw-Hill Companies, Inc. ---- Given: PR QS ---- Prove: PQ RS Proof: Statements are $p \rightarrow q$ and $q \rightarrow r$. F(-2, 2), G(-1, 1), H(-1, 3) 6. If a 45°-45°-90° triangle has a hypotenuse length of 12, find the leg length. C = 9 cm 5. 69 6-1 6-2 6-3 6-4 6-5 6-6 Angles of Polygons Conclusion: Helen is going to work. 14 m 3. Example 2 The ratio of the measures of the angles in JHK is 2:3:4. N U 7. 12-gon 10. C if the diameter is 7 inches 2. : C 4.0 3 4 8 8. C = 40 in. - and - 10. y The vertices are A(-2, 3), B(3, 2), C(2, -1), and D(-3, 0). mAC # 36° Copyright © Glencoe/McGraw-Hill, a division of The McGraw Hill Companies, Inc. If it is a polyhedron, name the faces, edges, and vertices. To find the number of permutations of a group of objects, use the factorial. Example Name each of the compound statement, "p, is false. Converse of Angle Bisector of the angle if equidistant from the sides of the angle, then it is on the bisector of the angle if equidistant from the sides of the angle. Find the length of 45 centimeters. The point of equation of p is y = - (2 - 0)2 + (0 - 1)2 = $\sqrt{2} 5 = \sqrt{5}$ units. Exercises ALGEBRA Find the value of x. M(11, -2), N(-9, 13) 12. mRT 5. x x + 10 30 10 89 10 Glencoe Geometry NAME DATE 7-4 PERIOD Study Guide and Intervention (continued) Parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts Proportional Parts with Parallel Lines When three or more parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines and Proportional Parts with Parallel Lines When three or more parallel Lines (Lines When three or more parallel Lines When three or more parallel Lines (Lines Whe proportional parts. Does DC NAME DATE 1-2 PERIOD Study Guide and Intervention Linear Measure Measure Line Segments A part of a line between two endpoints is called a line ---- segment. e. Like a parallelogram, the base can be any side, and the height is the length of an altitude drawn to a given base. 2 2 x 6 3 x Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Last month Cinderella was rented 35%, Snow White was rented 30%, Sleeping Beauty was rented (continued) Tests for Parallelograms Parallelograms on the Coordinate Plane On the coordinate plane, the Distance, Slope, and Midpoint Formulas can be used to test if a quadrilateral is a parallelogram. isosceles
right DEF with legs e units long y y y x x Chapter 4 6. Slashes on the figure indicate M Q P B A C which segments are congruent. MR and because they are alternate interior angles for two parallel lines. 27 Glencoe Geometry NAME 2-7 DATE PERIOD Study Guide and Intervention (continued) Proving Segment Relationships Segment Relationships Segment measures are reflexive, symmetric, and transitive. Since segments with the same measure are congruent, congruent segments are also reflexive, symmetric, and transitive. 25 Proving Segment Relationships How many square feet of grass will Ryan have to mow? If $m \perp 1 = m \perp 3$. Example 2 Use right ABC with Example 1 - - - BD \perp AC. Then find the perimeter and area of the figure. 3x 12 2x - 6 x + 3 x + 12 12 4. If 3 DVDs cost \$44.85, find the cost of one DVD. Step 2 Show that this leads to a contradiction. F(3, 3), G(1, 2), H(-3, 1), I(-1, 4); Midpoint Formula 7. A spinner with 8 evenly sized sections and numbered 1 through 8 is spun. mDE 7. Congruent Supplements Theorem Angles are congruent. Triangle Theorem Substitution subtract 4x from each side. " 2.5 # 1 2 14 % \$ 4 3 25 Chapter 7 86 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Therefore, m ∠ RAP = 36. all segments parallel to NU U M - - - 3. 113 Rotations..... . If HG = 7 and GR = 5, find HR. ∠6 and ∠14 6. 5 6 5 x 6. A dilation with 0 < k < 1 is a reduction. x 45° In a 45°-45°-90° right Example 2 triangle the hypotenuse is $\sqrt{2}$ times the leg. AB Use a calculator. trapezoid FGHI has vertices F(7, 7), G(9, 2), H(3, 2), and I(5, 7); 90° 8 2. 1 A=- d1d2 Area of rhombus 2 1 (7)(9) = - 2 7 cm d1 = 7, d2 = 9 = 31.5 Simplify. Other solids are a cylinder, which has chosen at random lies in the shaded region. 40 m Exercises Find the area of each trapezoid. 3 A conditional statement can be represented in symbols as $p \rightarrow q$, which is read "p implies q" or "if p, then q." Example 1 Identify the hypothesis and conclusion of the conditional statement. smallest unit of measure available on the measuring instrument. The park's Maintenance Department randomly chooses 4 roller coasters for upgrades each month. If AE = 3x - 1 and AC = 16, find x. Example A B 42° R C Exercises Find the value of x. Example A B 42° then lines . ACD CAB and ADB CBD Example A Find the value of x and y in parallelogram ABCD. HILL TOP The angle of elevation from point A to the top of a hill is 49°. Assume that each figure is not drawn to scale. A(-3, 2), B(-1, 4), C(2, 1), D(0, -1); Distance and Slope Formulas 5. Prove: PR = QS Proof: PQ R S Statements - 1. Chapter 13 172 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. x2 + y2 = 16 2. PROOF Write a two-column proof. What is the probability that one of his photographs is not chosen? E Two sides of HGF are congruent to two sides of HEF, and m \angle GHF > m \angle EHF. t A = 12 m2 20 f Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. BC EF 4. all segments skew to EH -- -- BF, CG, BD, CD, and AB B C F G A D E H Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. PQ + QR = QR + RS Reasons 1. Subtract 2x from each side. r 6. 49 Proving Congruence: ASA, AAS Exercises Compare the given measures. Area of a Trapezoid Example b1 If a trapezoid E 1 A=- h (b1 + b2) 2 b2 Find the area of the trapezoid. Parallelogram ABCD is a square which is also a rhombus and a rectangle. U R • Opposite sides are parallel. p v q Join the statements p and q with the word or: A diameter of a circle is twice the radius or a rectangle has four equal sides. 145 11-5 Areas of Similar Figures of each lateral face is called the slant height. -- -- AB and CD are chords. A • If one side of a triangle is longer than another side, then the angle opposite the shorter side. Write the statement in You receive a free pizza with 12 coupons. Example To estimate the height of a garage, 2 feet and 6 feet. Example x A 9 D B 8 C Exercises Find x. x 9 x 11 x + 12 30 3. Since c2 = and a2 + b2, the triangle is a right triangle is a right triangle is a right triangle. m = -2, (4, -2) 1 10. Perpendicular Bisector of a segment. 143 11-4 Areas of Regular Polygons and Q 60° 120° 90° 23° 4. HU . A = 247.5 mm2 22.5 mm 142 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. AB + DE > AD - BE Reasons 1. # B is larger than A, so the dilation is an enlargement. Find the value of y, m∠RPT, and m∠TPW. 71 Parallelograms y = 36 Exercises ALGEBRA Identify the similar triangles. 1 x+1 2x - 4 = - 2 4x - 8 = -x + 2 5x = 10 x=2 Draw a line p through (0, 1) that is perpendicular to and m. Example Name an angle or angle pair that satisfies each condition. The --- length of MN is about 34 millimeters. 14 1m Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. c b C a B a+b>c b+c>a a+c>b Example The measures of two sides of a triangle are 5 and 8. / 1. What is the ratio of the surface area of the small sphere to the surface area of the large sphere? 20 m Chapter 11 40 m 6. all planes parallel to plane ABD plane EFH -- b. SANDWICHES For a party, Samantha wants to have finger sandwiches. If WZ \perp AB, then AX XB and AW - - - If OX = OY, then AB RS. x° 89° 80° 30 60° 20 Chapter 8 107 Glencoe Geometry NAME DATE 8-6 PERIOD Study Guide and Intervention (continued) The Law of Sines and Law of Cosines The Law of Cosines Another relationship between the sides and angles of any triangle is called the Law of Cosines. The cylinder has axis symmetry. Start with R(0, 0). 5 cm 8. Hinge Theorem 5 97° 3 9 4 Exercises Complete the proof. What is the probability that Lana, Sherry, Miguel, and Jerome are chosen for these trips? Justify your answer. A(0, 2), B(2, 4), C(4, 2), D(2, 0) 2. NAME 2-4 DATE PERIOD Study Guide and Intervention Deductive Reasoning Law of Detachment Deductive reasoning is the process of using facts, rules, definitions, or properties to reach conclusions. If a2 + b2 = c2, then if - 5)° C (6x + 10)° (4x + 10)° A Chapter 6 B 71 Glencoe Geometry NAME 6 -1 DATE PERIOD Study Guide and Intervention (continued) Angles of a convex polygon. G L J K The polygon has four sides, so it is a quadrilateral. • Opposite angles are congruent. $m \angle 3 + m \angle 2 + m \angle E = 180$ Triangle Angle - Sum Theorem $m \angle 3 + 32 + 108 = 180$ m $\angle 3 + 140 = 180$ m $\angle 3 + 1$ Jason's height, so the garage is about 4.4 + 6 or 10.4 feet tall. (1) If a number is a whole number, then the number is an integer. Exercise Prove that the segments joining the midpoints of the sides of a right triangle. Addition Commutative Distributive Segment Addition Postulate 8. K(-2, 10), L(-4, 3) Chapter 1 5 Glencoe Geometry NAME 1-3 DATE PERIOD Study Guide and Intervention (continued) Distance and Midpoints of a segment If the coordinates of the endpoints of a segment are x1 and x2, Midpoint on a Number Line x + x 1 2. Given that $\angle A \angle D$ and $\angle D \angle E$, write a paragraph proof to show that $\angle A \angle E$. AB = DE - - - - 3. If Jerri wants to include three premium channels in her package, which service would be less, her current service or the competing service? $c_2 = a_2 + b_2 - 2ab \cos C c_2 = 122 + 102 - 2(12)(10)\cos 48^\circ c \approx 9.1$ Example 2 a2 72 49 -40 1 – a = 12, b = 10, m $\angle C = 48$ 10 48° 12 Take the square root of each side. 11 17 x 110 x+7 100 160 Chapter 7 92 Glencoe Geometry NAME DATE 7-6 PERIOD Study Guide and Intervention Similarity Transformations Identify Similarity Transformations A dilation is a transformation s A dilation is a transformation Similarity Transformations Identify Similarity Transformations A dilation is a transformation s Identify Similarity Transformation Similarity Similarity Transformation Similarity Similarity Transformation Similarity Sim the area of the shaded region. DG - - 3. Five people auditioned for lead female, 3 for the best friend, 4 for the mom, 2 for the dad, and 3 for the crazy aunt. MU 6. 12 cm 18 ft 8 cm regular hexagon 4 cm 5.
LANDING A parachutist needs to land in the center of a target on a rectangular field that is 120 yards by 30 yards. x y 1 x 3 4. Example line m. m = -1, (-1, 3) 5 11. Example y Graph (x + 3)2 + (y + 1)2 = 9. X R 2. 6.6 = x Divide both sides by 15. Cross multiplying gives x = ab, so ∠6 alternate interior angles ∠3 and ∠6; ∠4 and ∠5; ∠2 and ∠6; ∠4 and ∠6; ∠2 and ∠6; ∠4 and ∠6; ∠6 exterior, corresponding, or consecutive interior angles. For a circle that has radius r and diameter d, the following are true d r=- 2 1 r=- d 2 d = 2r Example a. m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a m: 0, b: -2 2 4 5 1 5. Example a minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, then the length of the shorter leg is one-half of 5, or 2.5 minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, then the length of the shorter leg is one-half of 5, or 2.5 minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, then the length of the shorter leg is one-half of 5, or 2.5 minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, then the length of the shorter leg is one-half of 5, or 2.5 minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, the shorter leg is one-half of 5, or 2.5 minimum and measure of FM. If the hypotenuse of a 30°-60°-90° right triangle is 5 centimeters, the shorter leg is one-half of 5, or 2.5 minimum and triangle is 5 centimeters, the shorter leg is 0. Example a minimum and triangle is 5 centimeters, the shorter leg is 0. Example a minimum and triangle is 5 centimeters, the shorter leg is 0. Example a minimum and triangle is 5 centimeters, the shorter leg is 0. Example a minimum and triangle is 5 centimeters, the shorter leg is 0. Example a minimum a centimeters. Use the figure and given line of reflection. If so, write the corresponding statement. Exercises State whether the figure appears to have line symmetry. CD - =k The ratio of corresponding lengths of similar polygons is equal to the scale factor between the HJ polygons. A(-2, -4), B(1, 3), C(4, -4) 6. m. 17 and 3 11. c. The two bases are O and P. Therefore, by the Law of Detachment, the conclusion is true. Subtraction Property of Equality If a = b, the a - c = b - c. 30 in. 4y 3x NAME DATE 6 -3 PERIOD Study Guide and Intervention Tests for Parallelograms Conditions for Parallelogra proof. Example 1 List the angles in order from smallest to largest measure. Converse of Perpendicular Bisector of the segment. Given that S is the midpoint of QP, T is the midpoint of PR, -- and P is the midpoint of ST, write a paragraph proof to # 7. \perp MQ 1. In general, a polygon is classified by its number of sides. Step 1 Since the order does not matter, the number of possible outcome—the 9 specific trophies being chosen. C J 2 15 H FGHJ is a parallelogram if the lengths of the opposite sides are equal. AB P(0, 0), Q(-2, 1) 2. Protractor Postulate Given any angle, the measure can be put into one-to-one correspondance with real numbers between 0 and 180. B A C R D • • is a semicircle, then m $\angle BCD = 90$. Given Given Midpoint Theorem Reflexive Property of SSS Postulate Exercises Write a two-column proof. 5 cm 4.2 in. m $\angle A = m \angle B = m \angle C = 60 \angle 1$ 2 Le m 2 - 60 APQ is equilateral. QR + RS - QR 8. Exercises Determine whether the stated conclusion is valid based on the given information. If the ratio of the parts is 1, then the parallel lines separate the transversals into congruent parts. \$ x # # 12 " 18 x° " 62° 24 11 10 x° 15 # Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Keep the figure in the first quadrant if possible. center at (0, 0), radius 8 2. 55° 60° 5x° 12x° 2y 6. favorable outcomes 2 1 --=- total number of outcomes 132 66 Exercises 1. y 0 0 5. measures are greater than m 4 Chapter 5 63 2 3 6 5 4 O Exercises 9-10 P Glencoe Geometry NAME DATE 5-3 PERIOD Study Guide and Intervention (continued) Inequalities in One Triangles are not congruent, there is a relationships When the sides of triangles are not congruent, there is a relationships when the sides of triangles are not congruent, there is a relationship between the sides of triangles. The center of symmetry is the intersection of the triangles are not congruent, there is a relationship between the sides of triangles. the lateral area and surface area if the length of a side of the base is 12 centimeters and the height is 8 centimeters. AA Similarity Two angles of one triangle are congruent to two angles of one triangle. Exercises NAME DATE 10-5 PERIOD Study Guide and Intervention Tangents Tangents Tangents Tangents to a circle in exactly one point, called the point of tangency. 16 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. The compositions of two reflections in intersecting lines is the same as a rotation. If points A, B, and C are collinear, then AB + BC = AC. If she chooses them at random, what is the probability that each of the trophies from the school invitational from the 1st through 9th grades will be chosen? Show that this assumption leads to a contradiction of the hypothesis or some other fact. It contains lines and planes. Since the polygon is convex, equilateral, and equiangular, it is regular. T W 65° 65° Chapter 4 60° 60° V X S B 6. two adjacent angles L 2. 60° 1.6 cm 24 in. Example then: ABCD is a parallelogram. Round to the nearest tenth. Opposite sides are congruent, thus ABCD is a parallelogram. QR Z J x 36 20 x W 13 U G 26 L 4. . Chapter 11 10.9 m 145 Glencoe Geometry NAME DATE 11-4 PERIOD Study Guide and Intervention (continued) Areas of Regular Polygons and Composite Figures Areas of Chapter 13 169 Glencoe Geometry NAME 13-3 DATE PERIOD Study Guide and Intervention (continued) Geometric Probability with Area Geometric Probability Probability with Area Geometric Probabilities can also involve area. & ' % % 4 8 5 6 6 Chapter 10 3 6 ; (2 \$ & # 7 128 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Assume that 4. original: A(-3, 4), B(2, 4), C(-3, -4) b. $60^\circ = A$ Use a calculator. Inverse $\sim p \rightarrow \sim q$ replacing the hypothesis with its negation and replacing the conclusion with its negation and replacing the hypothesis with its negation. Inverse $\sim p \rightarrow \sim q$ replacing the hypothesis with its negation and replacing the conclusion with its negation. Inverse $\sim p \rightarrow \sim q$ replacing the hypothesis with its negation. Find the value of the variable(s) in each figure. 120° 35° Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. $m \neq 1$ 3. sin 45° b ≈ 40.8 F d sin D sin E - = - e Law of Sines b sin 45° sin 74° - = - 30 b 28 Cross Products Property sin 58° - = 30, $m \neq B = 74$ b sin 45° b ≈ 40.8 F d sin D sin E - = - e Law of Sines b sin 45° sin 74° - = - 30 b 28 Cross Products Property sin 58° - = 30, $m \neq B = 74$ b sin 45° b ≈ 40.8 F d sin D sin E - = - e Law of Sines b sin 45° sin 74° - = - 30 b 28 Cross Products Property sin 58° - = 30 sin 74° - = -30 b 28 Cross Products Property sin 58° sin D = 28 Divide each side by 24. If there are 48,000 voters in Mayor Hernandez's town, predict the total number of voters who approve of the job she is doing. Segment Addition Postulate 8. 3 cm 4 cm 13 in. 10 cm NAME 11-3 DATE PERIOD Study Guide and Intervention Areas of Circles If a circle has an area of A square units and a radius of r units, then $A = \pi r^2$. Copy a and -b with the same initial point. 2 cm 9. 6, 9, 15 3. 77 Rhombi and Squares C A If two angles of one triangle are congruent to two angles of a second triangle, then the third angles are congruent. -- -- Given: AB CD ∠CBD ∠ADB Prove: ABD CDB % Statements Reasons -- -- 1. Graph the original figure and its image. An altitude to the hypotenuse of a right triangle forms two right triangles. The
following properties are true for any real numbers a, b, and c. $(x, y) A(3, 3) B(4, -2) C(-1, -3) (x, y) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow \rightarrow (x, -2, y - 1) A(1, 2) B(2, -3) C(-3, -4) \rightarrow (x, -2, y - 1) A(1, -2) A$ Companies, Inc. 16 and 30 8. Name the circle, D \approx 82° Use a calculator, 10 cm 1 vd 13 cm Chapter 12 156 4 vd Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGr McGraw-Hill Companies, Inc. Its measure is equal to one-half the sum of the STUR is an isosceles trapezoid. 1 π r2 A = lw - 2 = 50(30) - 0.5 π (15)2 \approx 1146.6 or about 1147 ft2 The dimensions of the rectangle are 10 centimeters and 30 centimeters. A model of the bridge has a span of 42 inches. Segment Addition Postulate 7. 0VUDPNF 'SFRVFODZ' .. MU. W N 1 3 O O M 60° 2 2 1 25° B C S R 4. h 8 in. extremes 1 1 means 9 27 = -. If • • • • • then corresponding angles are congruent, alternate exterior angles are congruent, consecutive interior angles are supplementary, alternate interior 8BML 4JOHMF %PVCMF 5SJQMF)PNFSVO 5PUBM 2.45 Congruent Triangles angles are congruent, or two lines are perpendicular to the same line, the lines are parallel. 13 cm 9 cm 26 in. What is the length of the larger laptop? AF 4. $\angle 5$ 2. two lines containing the point F # & and BH are lines on sphere K that contain the point F # A and BH are lines on sphere K that contain 12 cm 30° 4. TX = TX 10. 5 ft Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. CBA Use P to find the length of each arc. all segments that intersect MP T P R S Refer to the figure at the right to identify each of the following. 16 1. altitude lateral edge Lateral Area of a Prism If a prism has a lateral area of L square units, a height of h units, and each base has a perimeter of P units, then L = Ph. Surface area of S square units, then S = L + 2B or S = Ph + 2B lateral face pentagonal prism Example Find the lateral and surface area of the regular pentagonal prism above if each base has a perimeter of 75 centimeters and the altitude is 10 centimeters. $d = \sqrt{(x^2 - x_1)^2 + (y^2 - y^2)^2}$ 1 Line p has slope - - and y-intercept 1. A ray that divides an angle into two congruent is the angle angles is called an angle bisector. Example Quadrilateral DEFG has vertices D(-2, 3), E(4, 4), F(3, -2), and G(-3, -1). Justify your answer with the method indicated. p and q 2. To the Teacher These worksheets are the same ones found in the Chapter Resource Masters for Glencoe Geometry. X 12 8 Q W Step 2 Compare corresponding sides. R(-2, 3), S(3, 15) 11. 57 5-1 5-2 5-3 5-4 5-5 5-6 Bisectors of Triangles NAME DATE 11-2 PERIOD Study Guide and Intervention Areas of Trapezoids, Rhombi, and Kites Areas of Trapezoids A trapezoid is a quadrilateral with exactly one pair of parallel sides, called bases. z Q RS = 16 and RP = $25 = \sqrt{400}$ Multiply. PT 1. d b a O c a b=c d Example Find x. 16 x $24\sqrt{2}$ 45° 45° x x 7. Measure the length of vector u. 1. If a statement is false, find a counterexample. If alt. Example Find the lateral and surface area of the cylinder. Exercises Use the map above and a customary ruler to find the image of ABC after a dilation centered at the origin with a scale factor of 2. There is exactly one plane that contains points A. B. and C. If the plane is parallel to the base of the cone, then the resulting cross section will be a circle. 10 m 4m 15 in. + 3. (x, y) \rightarrow (rx, ry) Example ABC has vertices A(-2, -2), B(1, -1), and C(0, 2). Chapter 8 105 ? $\sqrt{2} = -\sqrt{2} \sqrt{2}$ 6 $\sqrt{2} = -2$ Using the Pythagorean Theorem with a = b = x, then c^2 = a^2 + b^2 = x^2 + x^2 = 2x^2 c = \sqrt{2} x^2 = x \sqrt{2} = 3 \sqrt{2} units Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Exercises Describe each cross section. • If all three angles of an acute triangle are congruent, then the triangle is an equiangular triangle. Example 1 If ABC ~ XYZ, list all pairs of congruent angles and write a proportion that relates the corresponding sides. Determine whether each related conditional is true or false. 65 The Triangle Inequality If a = 3, b = 8, and c = 5, find d. $(x, y) \rightarrow (y, -x) W(-2, 4) \rightarrow W'(4, 2) X(3, 6) \rightarrow X'(6, -3) Y(5, 2) \rightarrow Y'(2, -5) Z(0, 0) \rightarrow Z'(0, 0) \rightarrow Z'(0,$ tangent is a line, ray, or segment that is tangent to two circles in the same plane. 12 HJ 8 10 3 The perimeter of DEF is 10 + 8 + 12 or 30. ?? ART An artist in Portland, Oregon, makes bronze sculptures of dogs. For kite RMNP, $\angle M \angle P 8 80^\circ$ Example 1 If WXYZ is a kite, find m $\angle Z$. So m $\angle 3 < m \angle 1$ and m $\angle 4 < m \angle 1$. $\angle EBC$ is a right angle. P(pointer landing on blue) \dot{z} :FMMPX \dot{z} (SFFO 8, Find the length of $x = -3\pi$ The length of arc 1, can be found using the following equation: AB 360 $x = -AB \cdot 2\pi(8)$ Substitution ≈ 18.85 in. 6 8 4 16 x 1 5. One type of measure is length. 40-gon 8. If so, write a similarity statement. Find each value or measure. (h, k) x Write an equation for a circle with center (-1, 3) and radius 6. 64.3 Chapter 4 " 47 2x + y 90.6 65° 8. 5m 3. \angle ABC and \angle DBE are vertical angles. The conjunction p \land q is true only when both p and q are true. AE y B(0, 4) C(-2, 2) M(4, 2) O A(-2, -2) x D(0, -2) E(4, -2) 11. --- For kite RMNP, MP \perp RN 3 / 1 In a kite, exactly one pair of opposite angles is congruent. BC A if DO = 3 millimeters 4. A successful trial will be getting on base and a failed trial will be not getting on base. O r Find the coordinates of M is - = -2 Example 2 2 - - - Find the coordinates of M, the midpoint of PQ, for P(-2, 4) and Q(4, 1). $\angle ARB$ is a central angle and PERIOD (continued) Isosceles and Equilateral Triangles An equilateral Triangles An equilateral triangle has three congruent sides. 1 cm and 6 cm 9. M(0, -3), N(-2, -7), R(2, 1), S(0, -3) Graph the line that
satisfies each condition. BG 6. 18 x 5. Multiplication Property of Equilateral Triangles An equilateral triangle has three congruent sides. 1 cm and 6 cm 9. M(0, -3), N(-2, -7), R(2, 1), S(0, -3) Graph the line that satisfies each condition. BG 6. 18 x 5. Multiplication Property of Equilateral Triangles An equilateral triangle has three congruent sides. 1 cm and 6 cm 9. M(0, -3), N(-2, -7), R(2, 1), S(0, -3) Graph the line that satisfies each condition. BG 6. 18 x 5. Multiplication Property of Equilateral Triangles An equilateral triangle has three congruent sides. 1 cm and 6 cm 9. M(0, -3), N(-2, -7), R(2, 1), S(0, -3), N(-2, -7), R(2, -3), N(-2, -7), Rand CD = 24. Contrapositive ~q → ~p negating the hypothesis, negating the conclusion, and switching them If two angles are not congruent, then they are not congruent, then they are not vertical angles. You can use the Law of Cosines if you know three sides of a triangle or if you know two sides and the included angle of a triangle. Example A Prove that if a line is parallel to one side of an equilateral triangle, then it forms another equilateral triangle. M(1, -2), N(9, 13) 12. If the solids are similar, state the scale factor. Polygon Exterior Angle at each vertex, is 360. Subtract 148 from each side. NAME 3-1 DATE PERIOD Study Guide and Intervention Parallel Lines and Transversals Relationships Between Lines and Planes When two lines lie in the same plane and do not intersect, they are parallel. (5x - 5)° (6y - 4)° 90° NAME DATE 3-3 PERIOD Study Guide and Intervention Slopes of Lines Slope of a Line The slope m of a line containing two points with coordinates (x1, y1) y - y 2 1 and (x_2, y_2) is given by the formula $m = -x \cdot x$, where $x_1 \neq x_2$. Pineham and Eastwich Chapter 7 95 Glencoe Geometry NAME DATE 7-7 PERIOD Study Guide and Intervention (continued) Scale Drawings and Models Use Scale Factors The scale factor of a drawing or scale model is the scale written as a unitless ratio in simplest form. (AB)2 + (BC)2 = (BC)2 = (BC)2 + (BC)2 = (BC)2 + (B $(AC)^2$ Pythagorean Theorem 2 2 2 x + 8 = 17 Substitution 2 x + 64 = 289 Simplify. D 99 = 15x Subtract 225 from both sides. --- -3 + 1 -2 or -1. A(-2, -2), B(-1, 2), C(2, 1); r = 2 1. F I Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGrawand C if and only if AB + BC = AC. • Consecutive angles are supplementary. 2 PHU 8. 4.3 6. BASEBALL For a particular baseball player, out of the time, a double 30% of the time, a triple 1% of the time, a single 55% of the time, a single 55% of the time, a single 55% of the time, a double 30% of the time, a double 30% of the time, a single 55% of the time, a single 55% of the time, a double 30% of the time, a single 55% of the time, a single 55% of the time, a double 30% of the time, a single 55% of the time, a double 30% of the time, a single 55% of the time, a double 30% of the time, a single 55% of the time, a single 55% of the time, a single 55% of the time, a double 30% of the time, a double 30% of the time, a double 30% of the time, a single 55% of the time, a double 30% of the time, a double 30% of the time, a single 55% of the time, a double 30% of the time feet, the new angle of depression is 25°. Chapter 6 82 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Subtract 6 from each side. Are there any lines of latitude that are great circles? intersect AE ? QR = RS 5. a c 3 ft b. Each diagonal bisects a pair of opposite angles. Use the Law of Syllogism to find a valid conclusion. If d = 12 cm, then r = 6 cm. Construct a bar graph and compare the experimental probabilities with the theoretical probabilities. = $\sqrt{16.2}$ Associative Property = $4\sqrt{2}$ Simplify. Example 1 -- BD is the perpendicular -- bisector of AC. If $m \angle BEA = 62$, find $m \angle BEA = 62$. ABC has vertices A(3, 3), B(4, -2) and C(-1, -3). In one type of proof, a paragraph proof, you write a paragraph to explain why a statement is true. Example In the figure, $m \neq 2 = 75$. Let B represent a blue marble. ---3. area of PQR 36 -=-(5) 6 Area of JKL = 40; -4025 - 22112 in. TU : M(-2, 2), N(3, 1) 4. ALGEBRA Find x and the length of each side if ABC is isosceles with AB = BC. 165 Permutations and Combinations PB m $\angle P = T J 1 - mAD$) – (mBE 2 Example m $\angle Q = and RN$ are tangents. Name radii of the circle. T 8. $\angle EWL 87$. Suppose Josh draws a marble, and not liking the outcome, he puts it back and draws a second time. What is the probability that when you get to the light it is green? A Example 1 Example 2 Find the missing angle measures. 2. " % 30° 50m 1.8m 2. B C Exercises Use O to find the length of each arc. Hinge Theorem 5. ∠ABD ∠CBD 5. The three most common ratios are sine, cosine, and tangent, which are abbreviated sin, cos, and tan, respectively. NAME 12-3 DATE PERIOD Study Guide and Intervention Surface Areas of Pyramids and Cones Lateral and Surface Areas of Pyramids A pyramid is a solid with a polygon base. 5 # 4 \$ Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. y # (7, 7) Example The vertices of ABC are A(1, 3), B(7, 7) and C(9, 3). In the coordinate plane you can use the Distance Formula, the Slope Formula, and properties of diagonals to show that a figure is a rectangle. mCD 6.7 in 4. y = 0 # " 4. isosceles triangle – RST with base RS 4a units long 5. In the figure, PN bisector of \angle MPR. Complement Theorm 2. If an angle is supplementary to an obtuse angle, then it is acute. Here are the properties of rectangles. • The sum of the measures of two side lengths of a circle with no interior points in common is 360. SAS Similarity The measures of two side lengths of another triangle, and the included angles are congruent. Example 2 Find the area of regular pentagon RSTUV above if its perimeter is 60 centimeters. y tan 42 = (y + 20) tan $10 y \tan 42 = y \tan 10 + 20 \tan 10 +$ volume of the small cone to the volume of the large cone? The perimeter is 60, so RS = 12 and RP = 6. It is a right triangle. a line segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment on sphere K that containing the point J - ID is a segment of the point J - IDreplaced. Compl. Complete the proof. 12 yd and 18 yd 10. • If at least two sides of a triangle are congruent, then the triangle is an isosceles triangle is an isosceles triangle is an isosceles triangle are congruent, then the triangle are congruent, then the triangle is an isosceles triangle are congruent. number of registered voters and the number of registered voters who approve of the job the mayor is doing. Jennie's pet eats carrots. 5 yd 15 in. Rhombi also have the following properties. Reflexive Property of congruence 4. m 2x° (3x - 20)° 39 m (5x + 20)° m 70° Glencoe Geometry NAME 3-5 DATE PERIOD Study Guide and Intervention (continued) Proving Lines Parallel Prove Lines Parallel You can prove that lines are parallel by using postulates and theorems about pairs of angles. 5 cm 3. All rights reserved. C V E D Q W A 13 B Glencoe Geometry NAME DATE 1-7 Study Guide and Intervention PERIOD (continued) Three-Dimensional Figures SURFACE AREA AND VOLUME Surface area is the sum of the areas of each face of a solid. The scale of a model or drawing is the ratio of the length of the model or drawing is the ratio of the length of
the second Plan 1 = 45h + 55 or \$302.50 C = mh + b Second Plan 1 = 45h + 55 hours of service Donna would earn For 5 - () 2 Exercises For Exercises 1-4, use the following information. Just as a conditional statement can be true or false, the related conditionals also can be true or false. 45° 2 5 3. 3x + 8 = 2 b. In spherical geometry, a plane is the surface of a sphere. J(0, 0), K(-2, 8) 2. mAD A B 44° O C Chapter 10 125 D Glencoe Geometry NAME DATE 10-2 PERIOD Study Guide and Intervention (continued) Measuring Angles and Arcs Arc Length An arc is part of a circle and its length is a part of the circle. $m \angle 1 + 58 + 90 = 180 \text{ m} \angle 1 + 58 + 90 = 180 \text{ m$ r is "if a number is a whole number, then it is a rational number." Exercises Use the Law of Syllogism to draw a valid conclusion from each set of statements, if possible. 1, -, -, 5 5 5 Write a conjecture about each value or geometric relationship. p A q Join the statements with and: An elephant is a mammal and a square has four right angles. T S Properties of Rectangles A rectangle is a quadrilateral with four Q right angles. Write a justification for each step. NAME DATE 8-3 PERIOD Study Guide and Intervention Special Right Triangles The sides of a 45°-45°-90° Triangles The sides of a 45°-45°-90°

of AD. 2y 2. The height of a trapezoid is the perpendicular distance between the bases. 8x # Exercises ALGEBRA Find the value of x in each circle. - = -6 mi x mi actual $0.75 \cdot x = 6 \cdot 1.25$ Cross Products Property x = 10 Simplify. Volume of a Prism If a prism has a volume of V cubic units, a height of h units, and each base has an area of B square units, then V = Bh. Example 1 of the prism. Given: AB \perp BC; $\angle 1$ and $\angle 3$ are complementary. Identify an angle supplementary to $\angle TNU$. The center circle has a radius 4 inches greater than the previous circle. m $\angle 3$ 220° (52° 1 40° 45° S) U ' 3 28° & 4. M(0, 3), N(2, 4), R(2, 1), S(8, 4) 2. all planes that intersect plane MHE N M --- 6. Some pairs of the angles have special names. 17 Conditional Statements (& % 1. Ruler Postulate The points on any line or line segment can be put into one-to-one correspondence with real numbers. --- If BC has a slope of -2, then the altitude 1 has a slope of -. The principle states that if two solids have the same height and the same cross sectional area at every level, then they have the same volume. Suits: Gray, black, khaki 2. (x, y) $R(-2, -1) E(-2, 2) C(3, 2) T(3, -1) C'(5, 1) T'(5, -2) \rightarrow \rightarrow \rightarrow \rightarrow C E$ Graph RECT and its image R' E' C' T'. Example 2 A person 6 feet tall casts a 1.5-foot-long shadow at the same time that a flagpole casts a 7-foot-long shadow. Example 2 Find the volume of the oblique cylinder. (x2 - x1)2 + (y2 - y1)2 $\sqrt{(3)2 + (4)2}$ AB = $\sqrt{25} = \sqrt{=5}$ Exercises Use the number line to find each measure. A new customer has a trapezodial shaped backyard, shown at the right. Find the value of x. x 60° 11 8 30° y 3. 48 cm NAME DATE 5-4 PERIOD Study Guide and Intervention Indirect Proof Indirect Algebraic Proof One way to prove that a statement is true is to temporarily assume that what you are trying to prove is false. original: G(-4, 1), H(0, 4), J(4, 1), K(0, -2) image: D(1, 0), E(3.5, 0), F(1, -4) Graph each figure. By showing this assumption to be logically impossible, you prove your assumption false and the original conclusion true. Chapter 9 111 Glencoe Geometry NAME DATE 9-1 PERIOD Study Guide and Intervention (continued) Draw Reflections can be performed in the coordinate plane. -b Draw the vector from the initial point of -b The sides have a common endpoint, are noncollinear, and each side intersects exactly two other sides, but only at their endpoints. The sum of the measures of complementary angles is 90. If two lines intersect, then their intersect, then their intersect, then their intersect are spaced 2 feet apart. CLIFF Sarah stands on the ground and sights the top of a steep cliff at a 60° angle of elevation. 4 14 $\sqrt{3}$ 4 7 3. ℓ^2 = 62 + 82 Pythagorean Theorem = 100 Simplify. If one pair of consecutive sides of a parallelogram is a rhombus. Exercises Determine whether each sold is a polyhedron. The sum of the areas of the basic figures is the area of the figure. Measure to the nearest sixteenth of an inch. 20, 30, 40 3. PROOF Write a coordinate proof for the statement. 3 cm 15 in. m n. BM H (-1, -4) 35 Glencoe Geometry NAME DATE 3-3 PERIOD Study Guide and Intervention (continued) Slopes of Lines Parallel and Perpendicular Lines If you examine the slopes of pairs of parallel lines and the slopes of pairs of perpendicular lines, where neither line in each pair is vertical, you will discover the following properties. Theorem 2.11 Perpendicular lines form congruent adjacent angles. Example In ABC, U is the centroid and " BU = 16. 20 cm 6. mBCD 8. EG EG D G 1 E 2 F Assume the conclusion is false. " s a. MRS Chapter 10 P M N 126 50° 50° T R Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The pair of solids is similar, congruent, or neither. all segments parallel to QX 5. If the three whole numbers a, b, and c form a ABC is a right triangle. 3y - 3 = -x + -2233 = -x + -223 = -x + -233 = -x + -233E 95° B 2x° Chapter 4 x° 145° C 58° D H 46 x° G F Glencoe Geometry NAME 4-3 DATE PERIOD Study Guide and Intervention Congruent Triangles that have the same size and same shape are congruent triangles. Describe two geometric means. Subtract - 2 - 14 = -2x 7=x 5 55711 = -+-=6y = -x + -=-(7) + -21 Subtract - x from each side. Find OE. • the ratio of their volumes is a3:b3. x A = - $\pi c_{3}^{2} = -\pi c_{3}^{2} = -\pi c_{3}^{2}$ angles. Donna may change her costs to represent them a. Then describe a Step 2 Reflect A in line m. Therefore the compound statements a. JL 10 N 30 22 32 Q x P 7. Corresponding parts include corresponding angles and corresponding sides. Exercises Determine whether each statement is always, sometimes, or never true. D A rhombus is a parallelogram, so the opposite sides are parallel. What is the probability that the student of the month chooses a CD or DVD? -- -- Step 1 Draw AB at 3 units and draw AC at 4 units. Prove: XVZ WVY Chapter 4 8 50 9 7; Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. J(1, 0), H(6, 0), I(3, 6) Chapter 5 2. FB x + 22 18 -= - x+2 6 EC (6x + 132 = 18x + 36 96 = 12x 8=x Using the converse of the Triangle Proportionality Theorem, show that JL HK - = - . Example Use a protractor and ruler to draw a 110° rotation of square LMNO about point P. Two similar cones have heights of 3 ft and 12 ft. Area of a Triangle h Z Example 1 bh A=- Find the area of the triangle. If Sarah is 1.8 meters tall, how tall is the steep cliff to the nearest meter? heptagon 9. Exercises 2. The 10 students randomly draw cards numbered with consecutive integers from 1 to 10. ∠UGM 7. Points S is closer -- 3 to the 1 inch mark. • Opposite sides are congruent. -- AB is a tangent segment. D B C 2. OS S T P 2. B A D C Exercises 1. RS RP z = $\sqrt{\text{Geometric Mean (Leg) Theorem R y Square each side by 10. Round to the}}$ Example 1 nearest tenth. Symbols Formed by Example Conditional p-q using the given hypothesis and conclusion If two angles are brown. A statement that can be proved true is called a theorem. A(-1, -1), B(2, 2), C(4, 4) 5. In R, TS = 21 and UV = 3x. FD 6. In symbols, (a, b) \rightarrow (a, -b). CK 12 % Glencoe Geometry NAME DATE 5-2 Study Guide and Intervention PERIOD (continued) Medians and Altitudes of Triangles Altitudes An altitude of a triangle is a segment from a vertex to the line containing the opposite side meeting at a right angle. • If a secant (or chord) and a tangent intersect at the point of tangency, then the measure of each angle formed is one half the measure of each angle formed is Triangles Properties of Isosceles Triangles An isosceles triangle has two congruent sides called the legs. + 6 12 Find the scale factor: - or - . 180 > 115 > 90, so ∠DBC is an obtuse angle. B 4 3 2 C 3. Find a range for the length of the third side. Write a paragraph proof to show that BM = EN. ∠BAC and ∠3 are alternate interior angles for parallel lines, so $m \angle 3 = 32$. • The top view indicates two columns. If $\angle B \angle D$, then ABC ADC by the AAS Theorem. PQ + QR - QR = 7. If the diagonals of a parallelogram is a rhombus. Divide both sides by -2. In the figure at the right, $m \angle A + m \angle B + m \angle C = 180$. AD and CD R 3. Example a. Given: Q is between P and R, R is between R S Q Q and S, PR = QS. Definition of congruence of segments 28 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Triangle Inequality Theorem The sum of the lengths of any two sides of a triangle must be greater than the length of the third side. Therefore AD = AF, BE = BD, and CF = CE. R is the midpoint of QS. Exercises Use the Exterior Angle Inequality Theorem to list all of the angles that satisfy the stated condition. 20 in. The volume of the prism is 84 cubic centimeters. This solid is a cylinder. Name the sides of ∠1. 4 and 16 12. Exercises Find sin J, cos J, tan J, sin L, cos L, and tan L. 5 # 20 ft 6. m: - , b: 5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a
circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1, -1) = 0.5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1, -1) = 0.5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1) = 0.5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1) = 0.5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1) = 0.5 4. Under 2 service calls. 1 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY , then - . A(-1, -1) = 0.5 4. Under 2 service calls. 1 AB = - CD. 8 30° y 12 10 28 5. p: A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY A to A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY A to A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY A to A diameter of a circle is twice the radius. TR US Example 1 Quadrilateral RUTS above is a rectangle. R X T RX SY RX SY A to A diameter of a circle is twice the radius. TR US Example 1 0), B(0, 2), C(4, 0), D(3, -2); Distance Formula Chapter 6 78 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. A 2 3-4 in. AB > AC - BC DE > CD - EC 4. 2x 3x 5 6 3x Chapter 10 8 135 6 x Glencoe Geometry NAME DATE 10-7 PERIOD Study Guide and Intervention (continued) Special Segments in a Circle Segments Intersecting Outside a Circle If secants and tangents intersect outside a circle, then two products are equal. # 7. The magnitude of the vector is about 5.8 units and its direction is 59°. Exercises Find the lateral area and surface area of a Sphere r If a sphere has a surface area of S square units and a radius of r units, then S = $4\pi r^2$. P(pointer landing on green) Chapter 13 ž 3FE 170 ž #MVF Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. R B M O - - - MH \perp RO - - - MH bisects 2 RMO and 2 RHO. and is half its length. Substitution PROOF Write a two column proof. 5 tan A = - 3 O x The tangent ratio is opposite over adjacent. x x 3 10 7 10 5. Find a. K L J M Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. y 0 Chapter 10 133 Glencoe Geometry NAME DATE 10-6 PERIOD Study Guide and Intervention (continued) Secants, Tangents, and Angle Measures Intersections Outside a Circle If secants and tangents intersect outside a Circle If secants and tangents and tangen Intervention (continued) Congruence Transformations, and rotations, translations, and rotations, and rotations, and rotations, and rotations, and rotations, and rotations, translations, and rotations, translations, and rotations of triangles produce congruent triangles using SSS. Triangle Angle Sum Theorem B The sum of the measures of the angles of a triangle is 180. 2 y - y1 = m(x - x1) y - y1 = m(x - x1) Point-slope form 1 y-3 = -(x - 1) 1m = -, (x1, y1) = A(1, 3) 2 Distributive Property Simplify. Def. 4 and 25 7. $\angle 12$ and $\angle 3$ 9. 30 Glencoe/McGraw-Hill Companies, Inc. Use the parts of the equation to find (h, k) and r. 2 Q C Given Each \angle of an equilateral measures 60°. B C Step 1 Assume that $\angle A$ is a right angle. $m \angle W$ 3 ° 2 110° (3x) (2x)° 75° 1 4 (2x)° 9 (3y - 7)° 9 (2x)° 4 8. in. (x - 2)2 + (y - 1)2 = 9 y y x x O 3. 36.1 \approx c Use a calculator. 6x + 3 = 15 4x - 2y = 2 6x = 12 4(2) - 2y = 12 + 2y diagonals are congruent. Bedroom Décor 2. The volume is about 113.1 cubic centimeters. Reflexive 10. 89 Parts of Similar Triangles CPCTC Exercises Use a ruler to draw the image of the figure under a dilation with center S and the scale factor r indicated. North Park and Eastwich 4. 2 23 Chapter 2 A 1 2 B 3 2. mGH 1. P(M is on ZQ) Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Surface area of S square units, and a base has a radius of r units, then S = L + 2B or 2mrh + 2mr2. RS : C(4, 2), D(0, 3) 6. The Side-Side-Side (SSS) Postulate lets you show that two triangles are congruent if you know only that the sides of one triangle are congruent to the sides of the second triangle. D to AB 1. Vertical angles are two nonadjacent angles formed by two intersecting lines. Definition of midpoint 5. Justify your answer using the indicated formula. q y -y 2 1 m = - x2 $x_1 - 2 - 2 4 = -$ or - 2 - 1 3 (-3, 2) p (1, 2) x O (2, 0) (-2, -2) For line q, substitute (2, 0) for (x1, y1) and (-3, 2) for (x2, y2). B 2. 12 cm 2. There are 182 girls in the sophomore class of 305 students. Step 1 Reflect A in line l. Circumcenter Theorem The perpendicular bisectors of the sides of a triangle intersect at a point called the circumcenter that is equidistant from the vertices of the triangle. / Step 3 Use a ruler to draw L' such that PL' = PL. ∠13 ∠15 2. S 32 R x T 38 M 13 y P Use the congruent angle in each of the following spheres. 360 360 A R 135° 8 in. If a student draws a blue marble, the student practices long jump. By the Hinge Theorem, GF > FE. If RJ = 3 and RK = 10, find JK. $m \angle 1 = m \angle A + m \angle B$ Example 1 Find $m \angle 1$. $\angle ABD \angle BDC 4$. Thus the sum of the measures of the angles of ABC is greater than 180. 30 ft 6 cm 21 cm 8 in. an angle supplementary to $\angle RTS$ S For Exercises 5-7, use the figure at the right. 15 cm 2. 2 1 5! = 5 4 3 2 1 = 120 n distinct objects taken r at a time n n! Pr = - (n - r)! n objects arranged in a circle with no fixed reference point n! - n or (n - 1)! r1! r2! . JD Chapter 5 61 , 9 \$ 9. Place the initial point of -b at the terminal point of a. y y 0 x x Chapter 4 x 6. Then graph the circle. Given L 1 2 B 3 T R P Reasons a. p q, so $m \neq 1 = m \neq 2$ because they are corresponding angles. $\tilde{p} \vee q$ 3. The scale factor is $-3(1)3 = 37 \times q$ 3. The scale factor is meter long, what is the length of the longer post's shadow to the nearest hundredth? Then write and solve an equation to find the value of x. A C Exercises Complete each proof. The logo consists of two triangles that have the dimensions shown. A = 340 cm2 x mm 12.8 ft x ft x cm 20 cm 20 ft Chapter 11 9. O A C B D c. Exercises NAME DATE 5-6 PERIOD Study Guide and Intervention Inequalities in Two Triangles And an angle in each triangle. Assume that the conclusion is false by assuming the opposite is true. Determine the length of the leg of 45°-45°-90° triangle with a hypotenuse length of 25 inches. 14 cm Exercises Find the lateral area and surface area of each cylinder. X Y T P 1 R 1 $m \angle XTV = -mTUV 1$) + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ + mQS $m \angle 1 = -(mPR O S 2 2 Q 1 m \angle YTV = -mTUV 1)$ cone is a circle, so the area of the base is πr2. A • If two sides of a triangle are congruent, then the angles opposite B those
sides are congruent. 4.2 in. 8 NAME 9-3 DATE PERIOD Study Guide and Intervention Rotations Draw Rotat Simplify. 4 x y 17 3x COORDINATE GEOMETRY Find the coordinates of the intersection of the diagonals of ABCD with the given vertices. 1 A 2 3 B F 4 C 4. If a quadrilateral is both a rectangle and a rhombus, then it is a square. If $m \angle GHJ = 90$ and $m \angle GKJ = 110$, find $m \angle HGK$. Send all inquiries to: Glencoe/McGraw-Hill 8787 Orion Place Columbus OH 43240 ISBN 13: 978-0-07-890848-4 ISBN 10: 0-07-890848-5 Geometry Study Guide and Intervention Workbook Printed in the United States of America 1 2 3 4 5 6 7 8 9 10 009 14 13 12 11 10 09 08 Contents Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 13 167 Glencoe Geometry NAME DATE 13-2 PERIOD Study Guide and Intervention (continued) Probability with Permutations and Combinations Probability Using Combinations A combinations in x = y x 4. It is an arrangement of objects where order is NOT important. 88 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Translation: along (2, 0) Reflection: in x = y x 4. It is an arrangement of objects where order is NOT important. obtuse triangle. Example 1. Find c. A vector in standard position has its initial point at (0, 0) and can be represented by the ordered pair for point B. Theorem Substitution Subtraction Prop. Name a line that contains point A. Find the number of sides in the polygon. DINING OUT A group of 4 girls and 4 boys is randomly seated at a round table. Lateral Area of a Regular Pyramid Surface Area of a Regular Pyramid lateral edge height base 1 The lateral area L of a regular pyramid is $L = -P\ell$, where $\ell 2$ is the slant height and P is the perimeter of the base. K D 3. S 6 cm C 7 cm R 35° T 9 cm 20° A --- -- CB, AB, AC $\angle T$, $\angle R$, $\angle S$ 125° B Exercises List the angles and sides in order from smallest to largest. Hinge Theorem If two sides of a triangle are congruent to two sides of another triangle, and the third side in the first triangle is greater than the included angle in the second, then RS \perp RP. Calculate the expected value for each roll. D The two chords intersect inside the circle, so the products $AB \cdot BC$ and $EB \cdot BD$ are equal. What is the probability that Chantel and Cadence are chosen as leaders? -3 - (-3) - 0 = = - Slope of AC = -8 The line is horizontal. The following are the Addition Rules for Probability that Chantel and Cadence are chosen as leaders? -3 - (-3) - 0 = = - Slope of AC = -8 The line is horizontal. The following are the Addition Rules for Probability of Mutually Exclusive Events P(A or B) = -8 P(A) + P(B) Probability of Non-Mutually Exclusive Events P(A or B) = P(A) + P(B) - P(A and B) Example At the ballpark souvenir shop, there are 15 posters of the first baseman, 20 of the pitcher, 14 of the center fielder, and 12 of the shortstop. The point where three or more edges meet is called a vertex. Example If $m \angle 1 = 3x + 15$, $m \angle 2 = 4x - 5$, and $m \angle 3 = 5y$, find the value of x and y. $m \angle SXT + m \angle RXT = 180$ 3. 15 m The area of the trapezoid is 435 square meters. bisects $\angle MPR$, $\angle MPR$, or $m \angle MPR$, and 3 above. y 0 0 0 x x 4. Which additional pair of corresponding parts needs to be congruent for the triangles to be congruent by the AAS Theorem? If $m \angle STR$ = 8x + 3 and m / UTR = 16x - 9, find m / STR. Two sides of ABD are congruent to two sides of CBD, and AD > CD. PR = QS c. T to RS 4. % " 10° x 42° # y \$ 20 ft 6 ft Building ABC and ABD are right triangles. Example is the angle bisector of / NMP. N M S 4. If AE = 36 and CE = 2x - 4, find x. 33 Slopes of Lines assumption that ∠A is a right angle must be false, which means that the statement "∠A is not a right angle" must be true. Since ∠A and ∠D are both right angles, ∠A ∠D. 24-gon 11. The other two angles are called base angles. Example The Spanish Club is having a Cinco de Mayo fiesta. BF E D 3. More specifically, the volume of the pyramid is onethird of the volume of the prism. G x 6. Identify the hypothesis and conclusion of each conditional statement. Given: 2A 2C, 2D 2B, AD CB, AE CE, "-- -- AC bisects BD Prove: AED CEB NAME DATE 4-4 PERIOD Study Guide and Intervention Proving Triangles Congruent—SSS, SAS SSS Postulate You know that two triangles are congruent if corresponding sides are congruent and corresponding angles are congruent. She cuts sandwiches into circles. Always; the first postulate states that there is exactly one line through any two points. -- AD is a secant segment. is coplanar with D, but D is not on the line AB No. AB D C Exercises Refer to the figure. 4 4 14 $\sqrt{2}$ 10 $\sqrt{3}$ 101 3 5 67 104 3 39 5 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. (Converse of Isosceles Triangle --- -- If ∠A ∠C, then AB CB. A secant segment is a segment of a secant line that has exactly one endpoint on the circle. Example Find x.) # 1 + (& Chapter 7 3 11 , \$ % 2 4 22 5 - 85 Glencoe Geometry NAME DATE 7-2 PERIOD Study Guide and Intervention (continued) Similar Polygons. Let a = actual distance 6 mi in inches. cos-1 = = = = C Law of Cosines NAME DATE 8-7 PERIOD Study Guide and Intervention Vectors Describe Vectors A vector is a directed segment representing a quantity that has both magnitude, or length, and direction. The smaller size has a radius of 1 in. x = -1 2. Give a counterexample for any false conjecture. 4x + 6 = 18 2. In a circle or in congruent circles, two minor arcs are congruent if and only if their corresponding chords are congruent. Find m 2K. A diameter or radius perpendicular to a chord bisects the chord, so ED is half of CD. g. Exercises Identify the type of congruence transformation, or rotation, or rotation, or rotation. MK 4. To find the scale, write the ratio of a model length to an actual length. PQ + QR = PR d. those angles are congruent. If not, explain your reasoning. Chapter 6 77 Glencoe Geometry NAME 6 -4 DATE Study Guide and Intervention PERIOD (continued) Rectangles Prove that Parallelograms Are Rectangles are congruent, and the converse is also true. If $DZ m \angle DZQ + m \angle QZP = m \angle DZP$ (9x + 5) + (3x + 1) = 90 12x + 6 = 90 12x = 84 x=7 D Q (9x + 5)° (3x + 1) = 90 12x + 6 = 90 12x = 90 + 1)° Sum of parts = whole Substitution Z P Combine like terms. 24 cm 5 in. Distributive Property a (b + c) = ab + ac Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of the line is y = -2x + 4. Chapter 12 6 ft 157 Glencoe Geometry NAME DATE 12-5 PERIOD Study Guide and Intervention (continued) Volumes of Pyramids and Cones For a cone, the volume is one-third the product of the height and the area of the base. AE > FB Chapter 5 Reasons 1. If two points lie in a plane, then the entire line containing those points lies in the plane. For triangles, you can also use SAS Similarity. Chapter 7 88 Glencoe Geometry NAME DATE 7-4 PERIOD Study Guide and Intervention Parallel to one side of a triangle separates the other two sides proportionally. 139 11-2 Areas of Trapezoids, Rhombi and 1 = 1, passes through (6, 2) with A(-5, 6) 6. 32 ft Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. two supplementary angles 2 = 4. Exercises Find the Kites . volume of each prism. The area is 540 square meters. If DE GH, then GH DE. The chord and the tangent intersect at the point of tangency, so the measure of its intercepted arc. passes through H(8, 5), perpendicular to AG and G(-1, -2) 0 x with L(2, 1) and B(7, 4) 7. A red marble is drawn from a bag of 2 blue and 5 red marbles and then replaced, then a red marble is drawn again. C(11, -12), D(6, 2) 16. (4x + 20)° (6x - 20)° 4. DEA B D 45° 120° E O if BE = 24 feet 3. DF DE 2 2 PL = $\sqrt{2} + 1.5 = \sqrt{6.25} = 2.5$ Since the lengths of the sides that include Find and compare the ratios of corresponding $\angle A$ and $\angle D$ are proportional, ABC ~ sides. (x - h)2 + (y - k)2 = 2.5 Since the lengths of the sides that include Find and compare the ratios of corresponding $\angle A$ and $\angle D$ are proportional, ABC ~ sides. (x - h)2 + (y - k)2 = 2.5 Since the lengths of the sides that include Find and compare the ratios of corresponding $\angle A$ and $\angle D$ are proportional, ABC ~ sides. (x - h)2 + (y -
k)2 = 2.5 Since the lengths of the sides that include Find and compare the ratios of corresponding $\angle A$ and $\angle D$ are proportional. = r2 Equation of a circle (x - (-1))2 + (y - 3)2 = 62 Substitution (x - 1)2 + (y - 3)2 = 36 Simplify. A. The given statement Helen is going to work satisfies the conclusion of the true conditional. P(B) and B) = P(B) P(B) Probability of Iosh drawing two blue marbles is - or about 20%. - = - or - actual length 20 ft 4 ft The scale of the model is 3 in.:4 ft b. r = 2 1 2. - - - 2. then the coordinate of the midpoint of the segment are x + x y + y, -). A(3, 6), B(5, 8), C(3, 6), -2), and D(1, -4) 8. + % v \$ Chapter 9 1 0) # 6. Round to the nearest tenth if necessary. If true, explain your reasoning. Chapter 11 & cm \$ 7. Step 2 Make a table for several possibilities for x = 1 or x < 1. Glencoe Geometry NAME DATE 8-5 PERIOD Study Guide and Intervention (continued) Angles of Elevation and Depression Two Angles of Elevation or Depression Angles of elevation or depression to two different objects can be used to estimate distance between those objects. 50 ft 5 cm 30 ft The figure is a rectangle minus one half of a circle. 6 in. B 1 2 A D " # \$ % & ' S 2. 3 = \langle (2. Scale factors are always written so that the model length in the ratio comes first. so - AB AD BC DC In ABC, each leg is the geometric mean between the hypotenuse and the segment of the hypotenuse adjacent to that leg. Alternate Interior Angles Theorem 3. The vertex of each angle is a vertex of the polygon. Chapter 7 83 Glencoe Geometry NAME DATE 7-1 PERIOD Study Guide and Intervention (continued) Ratios and Proportions Use Properties of Proportions A statement that two ratios are a c - = -a c = -, where b and d are equal is called a proportion. S(10, -22), T(9, 10) 14. If $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$, find x and find $m \angle NPR = x + 34$. Reasoning and Conjecture Translation: along (-1, 3) Reflection: in x-axis 10 y 8 6 4 2 x 0 4 6 8 10 -10-8-6-4-2 2 -2 10 y 8 6 4 2 x 0 4 6 8 10 -10-8-6-4-2 2 -2 10 y 8 6 4 2 x 0 4 6 8 10 -10-8-6-4-2 2 -2 10 y 8 6 4 2 x 0 4 6 8 10 -10-8-6-4-2 2 -2 -4 -6 -8 -10 Chapter 9 x -4 -6 -8 -10 Chapte BD - - - - - radius: FB, FC, FD - - - diameter: BD • A segment with endpoints on the circle is a chord. COORDINATE GEOMETRY For each quadrilateral is a trapezoid and determine whether the figure is an isosceles trapezoid. 3 ft 9 cm 5. Exercises Refer to the figure. Name all angles that have R as a vertex. • If one of the angles of a triangle is a right angle, then the triangle is a right triangle. 8 ft 2. AB + BC > AC DE + EC > CD 3. r / 6. 2x° Y 3x° 6. Distance Formula Use the number line to find AB. Example Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 1 / Exercises Use a protractor and a ruler to draw the specified rotation of each figure about point K. Chapter 7 84 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of the span of the Maurice packs suits, shirts, and ties that can be mixed and matched. 167 Geometric Probability If you live in San Diego, then you live in California. The axis of a cylinder is the segment with endpoints at the centers of these circles. Multiply the x- and y-coordinates of each vertex by the scale factor, 2. # & ; \$ % : 8 9 a . 47 Chapter 3 9 10 12 11 p 13 14 16 15 q v 12. The diagonals are perpendicular. Conclusion: Jennie's pet is a rabbit. 123 Measuring Angles and Arcs 1 L= $-P\ell$ Lateral area of a regular pyramid 2 1 = $-(240) + 144 P\ell = 240$, B = 12 · 12 or 144 2 = 264 Simplify. Example 1 A convex polygon has 13 sides. a. Explain your reasoning. 18 10 8 2x 14 2 4. In ABC, AU = 16, BU = 12, and CF = 18. If AE = 8, find AC. 5 m 15 m 2 in. m = 0, (-2, 5) 37 Glencoe Geometry NAME 3-4 DATE PERIOD Study Guide and Intervention (continued) Equations to Solve Problems Many real-world situations can be modeled using linear equations., RP RS Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. CLOCKS Jonus watches the second hand on an analog clock as it moves past the numbers. Sa-2, b T(a, 0) x R(0, 0) (2) Exercises Name the missing coordinates of each triangle. So the rate 1 of change, or slope is 45. AB + DE > AC + CD - BC - EC 6. Substitution Exercises 2. 10 ft 15 ft 6 ft 8 ft 12 ft 3. 6 14 4 A T 5 12 \$ 1 2 20 9. XZ 3 - 4 X Y 6 in. A king is drawn from a deck of 52 cards, then a coin is tossed and lands heads up. OPEN ENDED Ryan runs a landscaping business. Given: ABC is equilateral; $∠1 \ ∠2$. If point A is 400 feet from the base of the hill, how high is the hill? To find an image for a reflection in the x-axis, use the same x-coordinate and multiply the y-coordinate by -1. The vector at the right can be expressed as v = (5, 3). If a polygon has four right angles, then the polygon is a rectangle. 100° 10 % ' 20° m 7m Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies Inc. B y A D C 18 $\sqrt{3}$ E 18 18 9 F x AC BC - = - BC AB - = - DF EF 18 $\sqrt{3}$ 18 - = - a 9 DE EF y 18 - = - a 9 ---- AB CB, AB AD, CB DC Prove: ABD CBD # " \$ % Chapter 4 48 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. E(-12, 2), F(-9, 6) 13. 16 in. AB --- 6. Transitive Property of 3. Find the perimeter or circumference and area of each figure. WRESTLING Carlos is the star of the wrestling team. Design a simulation using a geometric probability model. 15 m 6. 60° x y 4. Eastwich and Needham Beach 2. One of the pictures will be chosen for display at the district office. -b a a a - b a Exercises Copy the vectors to find each sum or difference. A 60° B C All three angles are congruent, so all three angles have measure 60°. RQS by SAS Similarity. 17 m 4 in. Exercises Determine whether the triangles are similar. Chapter 2 --- - 4. Example -- -- AB and CD are congruent. center at (0, 3), passes through (2, 0) 9. base height axis base radius of base Lateral Area of a Cylinder If a cylinder has a lateral area of L square units, a height of h units, and a base has a radius of r units, then L = 2 mrh. Solve - Example 1 16 9 27 - = - x 16 9 · x = 16 · 27 9x = 432 x = 48 x Cross Products Property Multiply. Example Prove that a segment from the vertex angle of an isosceles triangle to the midpoint of the base is perpendicular to the base. Here are four important properties of parallelograms. 1 a 2. The area of a parallelogram is the product of the base and the height. 10 cm 4. AB + BC = AC Betweenness of points x + 2x = 2x + 5 Add x + 2x. Example ABC is a right triangle. 2 Example 1 Find the slope of each line. S U 36 24 32 40 9 Z J H Q 20 R 15 25 S Glencoe Geometry NAME DATE 7-3 PERIOD Study Guide and Intervention (continued) Similar Triangles Use Similar Triangles can be used to find measurements. The heights of two vertical posts are 2 meters and 0.45 meter. so a2 + b2 = c2. Divide each side by 11. Points E and F are contained in exactly one line. Every triangle has three altitudes which meet at a point called the orthocenter. Find m AB and m ACB. One way is to use T(a, 0), R(-a, 0), and S(0, c). • Two minor arcs are congruent. Segment Addition Postulate e. 8 x 28 x 24 x 96 17 Chapter 8 99 Glencoe Geometry NAME 8-2 DATE Study Guide and Intervention PERIOD (continued) The Pythagorean Theorem and Its Converse of the lengths of the length the Triangle Proportionality Theorem. x 30° 6. What is the probability that the quadrilateral is a square? If $m \angle ACB = 4x^2$ - 6, find $m \angle ACB =$ products of the lengths of the chord segments are equal. The two triangles are similar and each is similar to the original triangle. 8 cm 9 in. (Arc Addition Postulate) + mFG = mCG mCF - AC is a diameter of R. 2m 8 in. R NAME DATE 1-6 PERIOD Study Guide and Intervention Two-Dimensional Figures Polygons A polygon
is a closed figure formed by a finite number of coplanar segments called sides. 18 m 3. An obtuse angle has measure greater than 90 but less than 180. 1 = 15, b1 = 18, b2 = 40 18 m Simplify. Chapter 6 79 Glencoe Geometry NAME 6 -5 DATE Study Guide and Intervention PERIOD (continued) Rhombi and Squares Conditions for Rhombi and Squares The theorems below can help you prove that a parallelogram is a rectangle, rhombus, or square. cube with 4 units on each side 2. 23 Algebraic Proof (B, $D 3x + 8 A \cdot 2 3 1$ The scale factor is - or - . If it is Saturday, then there is no school. y p m Substitute 2 for x to find the ycoordinate. Is AB XY ? Congruent solids have exactly the same shape and the same size. Its perimeter is 480 inches. ABC ~ ADB and ABC ~ BDC, AC BC AC AB = - and - = - . R T 35 cm 80° 23.7 cm R S 4. Chapter 2 24 N F R Q S P T Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. measures are greater than m 4 1 7 X 5. Find the perimeter and area. J Square GHJK is circumscribed about Q.) y (-. Find the value of y. The surface area is 452.4 square centimeters. Example Use a calculator to find the measure of 4 T to the nearest tenth. Given: n is an integer and n2 is even. Statement q joined by the word and is a conjunction. The Isosceles Triangle Theorem leads to two corollaries about equilateral triangles. 1 (24) ED = - 2 = 12 Use the Pythagorean Theorem to find x in OED. C = 15.62 m 4. Find the exact circumference of each circle using the given inscribed or circumscribed or circumscribed or circumscribed polygon. Graph ABC and its image after a translation along(-2, -1) and a reflection in the x-axis. T S 3. A right angle is an angle whose measure is 90. m: - -, b: 4 1 3. 8y 2. 15 ft 45° 30 ft 20 in. Let B be the event that the number 10 is drawn. A corresponding statement in spherical geometry has a corresponding statement in spherical geometry. Line contains points X and Y. The Exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior Angle Inequality Theorem can be used to prove this inequality Interval (1, -2), E(1, -3), E(1, -2), E(1, -3), E(1, -2), E(1, -3), E(1, -2), E w - v = 1, then - x = 1. M m L K P R S Q T O U t H J 3. 4 and 6 3. m A (3x + 4)° (6x - 3)° # 5 Chapter 10 (2x + 9)° \$ 6 8 5. R(-2, -3), S(3, -5) 3. Graph each line to verify your answer. The P.E. teacher puts 10 red and 8 blue marbles in a bag. m 2. These are mutually exclusive events because the posters are of two different players. --------- If AB CD and CD EF, then AB EF. Exercises Find the area of each shaded sector. 4 Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of two or more geometric figures is the set of points they have in common. 1.5 cm 8 ft 8 ft 3. -- -- If AB BC, then B is the midpoint of AC. Quadrilateral ABCD has vertices A(-3, 0), B(-2, 3), C(4, 1), and D(3, -2). -- -- AB is tangent to C, so AB is perpendicular to radius BC. hours of service Donna would earn For 5 - 2 The y-intercept is located 1 + 55 C = 455 - where there are 0 hours, 2 or \$55. Exercises Graph each figure and its image along the given vector. The sum of the measures of the exterior angles is 360 and a hexagon has 6 angles. -- -- 3. Example 1 S R 1 2 1 A C Example 2 Classify each angle as right, acute, or obtuse. q: A rectangle has four equal sides. Describe an appropriate probability model for the situation. Exercises 2.0 cm 1. For a circumference of C units and a diameter of d units or a radius or r units, $C = \pi d$ or $C = 2\pi r$ Example Find the circumference of the circle to the nearest hundredth. Example O P a. If points G and H are contained in plane M, then GH is perpendicular to plane M. 14 cm 38 cm 24 in. 2 1 1 bh = - (RS)(AP). m = - , (-3, -2) 4 12. m \angle CBD + m \angle DBE = 90. If a student draws a red marble, the student plays basketball. BC S in. Suppose you have three different positive numbers arranged in order from least to greatest. leg opposite $\angle R$ hypotenuse cos R = -t r t T s leg opposite $\angle R$ hypotenuse cos R = -t r t T s leg opposite $\angle R$ leg adjacent to $\angle R = -rs t$ Example Find sin A, cos A, and tan A. Conjecture: For the next figure, the side of the square will be 4 units, so the figure will have 16 small squares. Example and CD are parallel, perpendicular, or Determine whether AB neither for A(-1, -1), B(1, 5), C(1, 2), D(5, 4). Always keep your workbook handy. 3 9 x 4. The exercises are designed to aid your study of mathematics by reinforcing important mathematical skills needed to succeed in the everyday world. m ABC 6. --Given: V is the midpoint of YZ. Chapter 12 162 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 12 x 3. r s 4. Determine the length of a side of the triangle. ∠10 and ∠16 q 1 2 4 3 5 6 8 7 b. -- -- AB and CD are opposite sides, so AB CD. 9. Sketch and label the angle measures of the triangle. Example 2 List the sides in order from shortest to longest. 120n = (n - 2) 180 120n = 180n - 360 -60n = -360 n=6 Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 2 (AB) = BC · BD 15 T (18)2 = 15(15 + x) Substitution. ∠E and ∠F are right angles. Example 1 C Example 2 (4x + 5)° 3x - 13 B A Find x. $\sqrt{AB} = \sqrt{(-2 - 3)^2 + (3 - 2)^2} = \sqrt{25 + 1}$ or $\sqrt{26}$ - (-3))2 + (-1 - 0)2 = $\sqrt{25 + 1}$ or $\sqrt{10}$ - (-3))2 + (-1 - 0)2 = $\sqrt{AD} = \sqrt{(-2 - 2)^2 + (2 - (-1))^2} = \sqrt{(-2 - 2)^2 + (2 - (-2))^2} = \sqrt{(-2 - 2)^2 + (2$ b = 5, c = 8 B Multiply. 1 Y 21 Z Chapter 10 24 A 8 x x 2 17 3 B 131 Glencoe Geometry NAME DATE 10-5 PERIOD Study Guide and Intervention (continued) Tangents Circumscribed about a circle, all of the sides of the polygon are tangent to the circle. $\angle 11$ and $\angle 14$ 12. If two sides of a triangle are congruent to two sides of another triangle and the included angle of the first is larger than the third side of the second, then the third side of the second triangle. • The front view indicates that the columns have heights 2 and 3 blocks. ALGEBRA In the figure BA bisects $\angle CBE$. Example SCALE MODEL A doll house that is 15 inches tall is a scale model of a real house with a height of 20 feet. <1 and <2 form a right angle. Tell which postulate(s) or theorem(s) you used. 1 7. Exercises Write a conjecture that describes the pattern in each sequence. Example 2 State whether the figure appears to have rotational symmetry. • If a tangent segment and a secant segment are drawn to a circle from an exterior point, then the square of the measure of the measures of the secant segment and its external secant segment is equal to the product of the measure of the secant segment are drawn to a circle from an exterior point, then the square of the measure of the measures of the secant segment and its external secant segment are drawn to a circle from an exterior point, then the square of the measure of the measures of the measure of the measure of the measure of the measures of the secant segment are drawn to a circle from an exterior point, then the square of the measure of the measure of the measures of the measures of the measures of the measure of the measures of the measures of the measures of the measures of the measure of the measures of the measu representing the measures of the sides opposite Law of Cosines the angles with measures A, B, and C, respectively. Find the value of x, $m \angle PQS$, and $m \angle SRT$. A(-3, 0), B(-2, 3), C(4, 5), D(3, 2); Slope Formula 3. = Simplify. North Park Method 1: Write and solve a proportion. B(8,7) Find the magnitude. $m \angle T$: 7. A(-3, 0), B(-1, 3), C(5, -1), D(3, -4) 5. In the figure below, line t is a transversal. 38 cm 5. Chapter 6 76 Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hi Write the specified type of proof. Inscribed polygons have several properties. center at (2, -4), radius 1 4. Given: BC = DE Prove: AB + DE = AC A B Proof: Statements 1. Name diameters of the circle. 4m 151 16 m Glencoe Geometry NAME DATE 12-2 PERIOD Study Guide and Intervention (continued) Surface Areas of Prisms and Cylinders Lateral and Surface Areas of Cylinders A cylinder is a solid with bases that are congruent circles lying in parallel planes. This property is not true in spherical geometry. Find the measure of each number dangle. Definition of \perp c. Given: If a number is divisible by 6, then the number is divisible by 3. y Example RECT has vertices R(-2, -1), E(-2, -1), E 2), C(3, 2), and T(3, -1). If so, 90° locate the center of symmetry and state the order and magnitude of symmetry. 5x ° 18 6. Exercises
PROOF Write the specified type of proof. y = 1 x 0 Graph quadrilateral ABCD and its image in the given line. B 6 cm 4. Locate the image of each point by marking off this distance along the line through each vertex. Steps for Writing an Indirect Proof 1. BC E V x 24 R T I H 20 2 36 V Q 2. 10 in. The height of the cliff is about 674.5 feet. 59° 82° " 25 " x° x 18 20 \$ 6. What is the ratio of girls to total students? " Example Draw the translation vector. 3 ft 3. 160 9. Conclusion: 18 is divisible by 3. 1.5 ft 12 ft 5. Find the actual distance from Pineham to Menlo Fields. They are vertical angles. A glide reflection is a translation followed by a reflection is a translation vector. Transitive If AB = CD and CD = EF, then AB = EF. For ∠RAS, the area is First find the apothem. Classify each angle as right, acute, or obtuse. Exactly one plane contains points F, B, and E. 34 3 5 34 Use a calculator. m 4 ≈ 59.0 Use a calculator. The contradiction shows that the conclusion cannot be false, so it must be true. Then classify it as convex or concave and regular. 7m m 3c 8m 7m 12 cm 18 cm ALGEBRA Find x. Exercises Classify each triangle as acute, equiangular, obtuse, or right. Example 2 Write a compound statement for each disjunction. 2, 4, 5 5. 121 8-3 8-4 8-5 10-1 10-2 10-3 10-4 10-5 10-6 Circles and Circumference which plan would Donna earn more? The first part of the test consisted of two true-or-false questions. Chapter 5 59 3 / , Glencoe Geometry NAME DATE 5-1 PERIOD Study Guide and Intervention (continued) Bisectors of Triangles Angle Bisectors Another special segment, ray, or line is an angle into two congruent angles. mBA 4. --2, then the altitude has a lf AB has a slope of --. The circumference is 26π about 81.68 centimeters. Theorem) --- Find x, given BC BA. p: An elephant is a mammal. 7 ft x cm A = 300 Postulates and Paragraph Proofs Paragraph Proofs A logical argument that uses deductive reasoning to reach a valid conclusion is called a proof. Chapter 1 1 Glencoe Geometry NAME 1-1 DATE Study Guide and Intervention PERIOD (continued) Points, Lines, and Planes in Space Space is a boundless, three-dimensional set of . <1 and <2 are compl. One cubic unit is the volume of a cube that measures one unit on each edge. Events are independent events if the probability of the other. 25 2. Find the value of x and y so that NR N P 2. -- -- -- -- 2. 93 Scale .. r: A rectangle has four sides. The distance between Pineham and Menlo Fields is about 1.25 inches. DEF ~ GHJ) + 8 3 2. 3 10 in. all planes that intersect plane OPT O N --- 2. mACB 7. Events are dependent events if one event in some way changes the probability that the other occurs. Let A represent selecting Drawings and Models one of Lorenzo's photographs. P Prove: PQ = RS Proof: Statements Reasons 1. A -5 -4 -3 -2 -1 0 B 1 2 d = 3 - (-2))2 + (3 - (-1))2 AB = $\sqrt{(1 AB = |(-4) - 2| = |-6| = 6 Copyright @ Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of T$ Example 1 1.2 cm E Example 2 Find EF. 45 and 414 3. 4NPS Chapter 1 7 Glencoe Geometry NAME 1-4 DATE Study Guide and Intervention PERIOD (continued) Angles that have the same measure are congruent angles. 14 x 12 4. - and 2 5. PETS Dani has a dog walking business serving 9 dogs. A polygon is named by the letters of its vertices, written in order of consecutive vertices. The midsegment or median leg of a trapezoid is the segment that connects the midpoints of the legs of R U base the trapezoid. A 1. 212 and 213 p 9 10 12 11 13 14 16 15 n corresponding angles d. Step 3 The conclusion that the sum of the measures of the angles of ABC is greater than 180 is a contradiction of a known property. --- --- 1. By definition, an angle bisector divides an angle into two congruent --- angles. O NAME DATE 4-1 PERIOD Study Guide and Intervention Classifying Triangles by Angles One way to classify a triangle is by the measures of its angles. The phrase immediately following the word then is the conclusion. It is clear that the volume of the pyramid is less than the volume of the prism. Solve the system of equations and find where the altitudes meet. A 2 G 4. 15 = \sqrt{RP} SP AD BD = -. PK + KM > PL Chapter 5. \perp BC so that EB F B A C 5. Chapter 12 164 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. If there are 4000 plants in the field, predict the total number of plants smaller than a foot in height. Two lines have the same slope if and only if they are parallel. 2x + 4 3x - 1 5. NAME DATE 4-2 PERIOD Study Guide and Intervention Angles of Triangles Triangle Angle-Sum Theorem If the measures of two angles of a triangle are known, the measure of the third angle can always be found. Exercises Name each polygon by its number of sides. If the axis is also the altitude, then the cone is a right cone. Name the intersection of plane N and line AE B C N and DC. - = - 394. Each point of the preimage and its corresponding point on the image are the Example Identify the type of congruence transformation, or rotation, o of observation to the same object can be used to estimate the height of the object. If $m \angle A = 90$, then $m \angle B = 45$. G 4 1 2 The measure of an exterior angle. Example If XYZ RST, name the pairs of Y congruent angles and congruent sides. ('% & / b 113 Glencoe Geometry NAME DATE 9-2) PERIOD Study Guide and Intervention (continued) Translations In The Coordinate Plane A vector can be used to translate a figure on the coordinate plane when written in the form (a, b) where a represents the horizontal change and b represents the vector's tip to its tail. Then U(0, 0) -- is the midpoint of RT. Substitution 4 Chapter 2 25 Glencoe Geometry NAME 2-6 DATE PERIOD Study Guide and Intervention (continued) Algebraic Proof Geometric proofs use properties of numbers. Ties: Striped (But optional) • Suit color (G, B, or K) 4VJU 4IJSU 5JF 8 • Shirt color (W or L) (-• Tie (T or NT) 8 0 VUDPNFT # Draw a tree diagram with three stages. State the postulate that can be used to show each F statement is true. measures are less than m 2154 J K Exercises 1-2 M 2. A sample space can be found using an organized list, table, or tree diagram. BE 8. area of center circle P(coin lands in center) = -- area of base of pond $4\pi = -36\pi 1 = -36\pi$ about 0.11, or 11% 9 2 ft 4 ft 2 ft Exercises 1. m: - -, (0, -) 3 3 6. How tall is the flagpole? QRS with vertices Q(2, 5), R(7, 1), and S(-1, 2); $\langle -1, -2 \rangle$ 8 y 4 -8 -4 4 0 8x -4 -8 3. Property Segments Angles Reflexive AB = AB m $\angle 1$ = m $\angle 1$ Symmetric If AB = CD, then CD = AB. If you choose 4 of these at random to arrange on a shelf, what is the probability that the Geometry textbook will be first from the left and the Chemistry textbook will be second from the left? • If the point being rotation, and the measure of the angle of rotation formed by the preimage, center of rotation, and image points is x. AC = 2x + 5 = 2(5) + 5 = 15 Point D is between E and F. - 3 2. x=5 Simplify. 4.1 cm 4.1 cm 7. Exercises Classify each triangle as equilateral, isosceles, or scalene. Symbols: p x q (Read: p and q) Symbols: p x q (Read: p or q) The statements p and ~p have opposite truth values. Using the packing list at the O 3 D - - 1 - 3 - 21 = - or - slope of BC = -4 - (-2) 6 3 Opposite sides are parallel, so the figure is a parallelogram. The congruent - - angles cannot be $\angle 1$ and $\angle 2$, because AC would be the included side. RS RS 4. 16-gon 3. Transitive Property of Equality Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc 10 ft Volume of a pyramid B = (8)(8), h = 10 8 ft 8 ft ≈ 213.3 Multiply. NAME DATE 2-6 PERIOD Study Guide and Intervention Algebraic Proof A list of algebraic steps to solve problems where each step is justified is called an algebraic proof, The table shows 8 ft 12 ft 10 ft 30° 15 ft 6. 125 Arcs and Chords..... properties you have studied in algebra. S R V 6. m 4 2 = 32 Vertical angles are congruent. PQ + QR = QR + RS f. Then find its truth value. r = -4 4 2 # 3 " Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. If two angles and the included side of another triangle, then the triangles are congruent. If a is positive, then 10a is greater than a. PQ = RS 6. Round to the Example 2 nearest degree. BE Chapter 2 E G Q. Subtract. 45 9. a2 + b2 20 R a = 10 $\sqrt{3}$, c = 20 10 $\sqrt{3}$ 10 Q Simplify. Conclusion: \angle A is congruent to \angle C. If ABCD ~ PQRS, find the scale factor of ABCD to PQRS and the perimeter of each polygon. Three noncollinear points determine a triangle is equilateral if and only if it is equiangular. m 2 B 21° 19° P N 48 30 4. Given P and R. / .' - /' 0 0'. So, m 2 T ≈ 58.5. Exercises Use a calculator to find the measure of ∠T to the nearest tenth. m∠L " 125°, # 40° 5 + 5 \$ %. PR QS b. B 8 6 15 D 10 A 9 Example 2 Determine whether the triangles are similar. Point Y is not collinear with points T and P. Let k be the scale factor between ABDC and FGJH. 2x - 2 1. For each exterior angle of a triangle, the remote interior angles are the interior angles that are not adjacent to that exterior angle. Defn of linear pair 2. 25 17° 12 x x 72° 6. NAME DATE 12-8 PERIOD Study Guide and Intervention Congruent or Similar Solids Similar solids Similar solids have exactly the same size. L 3 1 2 1. 1. If she cuts each circle linear pair and $m \neq 2 = 115$, find $m \neq 1$. D = sin-1 28 24 Use a calculator. Two triangles are congruent if and only if all three pairs of corresponding sides are congruent. Write a description of how the fee for the number of premium channels is reflected in the equation. - 3 5 -8 1 - (-7) - - - 8 = - = undefined Slope of BD = - 1-1 0 % The line is vertical. S(1, 0), T(4, 7), U(8, -3) 62 Glencoe Geometry Copyright © Glencoe/McGraw-Hill Companies, Inc. N 12 M 5 36
4 P Y 6 15 x 3 Q 6. In the 2007 Major League Baseball season, Alex Rodriguez hit 54 home runs and was at bat 583 times. Mult. The frequency table shows the results of a simulation. 1 cm 2 cm 10 cm 3. P(not A) = 1 - P(A) Probability that one of Lorenzo's photos is not selected is 97%. A = 200 cm2 Chapter 11 ft 10.5 cm 16 3. The triangle is an equiangular triangle exterior angle 4. 26 in. Write a paragraph proof. State whether the figure has rotational symmetry. Two similar triangular prisms have volumes of 27 square meters and 64 square meters and 64 square meters. CHG \angle GEF is a central angle. OR + RS 7. - = - 3 3 g. P(pointer landing on red) 1VSQMF ž 0SBOHF 7. x x° 8 2. • If one angle of a triangle has a greater measure than another angle, then the side opposite the greater angle is longer than the side opposite the lesser angle. The cylinder has plane symmetry. An 2 1 x + 1. Example Parallelogram WXYZ has vertices W(-2, 4), X(3, 6), Y(5, 2), and Z(0, 0). To find the ratio, divide the number of games won by the total number of games played. 4 in. C M B E --- -- 3. : # Use the similarity statement. Point out that the assumption must be false, and therefore, the conclusion must be true. q Λ ~ r 5. Exercises Find each measure. Since the scale factor is not 1:1, the solids are not congruent. 81 Exercises Find each measure. Since the scale factor is not 1:1, the solids are not congruent. 81 Exercises Find each measure. and Intervention Angle Relationships Pairs of Angles are two angles are two angles that lie in the same plane and have a common vertex and a commo Intervention (continued) Simulations Summarize Data from a Simulation After a simulation is created, the results must be reported with numerical and graphical displays of the data. Exercises NAME DATE 13-6 PERIOD Study Guide and Intervention Probabilities of Mutually Exclusive Events If two events cannot happen at the same time, and therefore have no common outcomes, they are said to be mutually exclusive. 46.8 x n 36 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. D Given: ∠ ABC and ∠CBD are complementary. Since Cynthia is bringing dessert, she must have drawn an even number. The first step in writing a coordinate proof is to place a figure on the coordinate plane and label the vertices. F G L K A C 5. Write a ratio for the number of games won to the total number of games itself by a reflection in a line called the line of symmetry. Then use your conjecture to find the next item in the sequence. If two planes intersect, then their intersection is a line. The phrase immediately following the word if is the hypothesis. y 3. If a parallelogram has one right angle, then it has four right angles. 18 ft 1 20 2 ft 7. If 2 juniors are chosen at random out of 100 juniors, what is the probability that at least one of them is not right handed? The expected value E(X) is found by adding the products of each region's point value and the geometric probability of landing in that region. statement. Exercises Find the volume of each cone. Explain. Given two parallel lines and a transversal, alternate interior angles are congruent. The length of the shorter leg, or (2.5) ($\sqrt{3}$) centimeters. Multiply the scale factor of the model by a conversion factor that relates inches to feet to obtain a unitless ratio. B 6. Since $\angle 1$ $\angle 2$, r s by the Converse of the Corresponding Angles Postulate. --- --- AO, BO, CO, and DO are radii. 2y° (4z + 6)° z° 2x° 90° x° x° 106° 2y° Chapter 3 34 Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of x 8 10x = 24(8) 10x = 192 x = 19.2 Exercises Find x. 11 in. G F 1 m $\angle DEF = -mDF 2$ If two inscribed angles intercept the same arc or congruent. a=8 m Write an equation. pentagonal prism square pyramid pentagonal pyramid rectangular prism cylinder cone sphere Example Determine whether each solid is a polyhedron. x° (5. So the area of the A= - 2 2 (2) 1 (RS)(AP). S = $2\pi rh + 2\pi r2$ Surface area of a cylinder 2 \approx 527.5 + $2\pi(6)$ $2\pi rh \approx 527.5$, r = 6 \approx 640.5 Use a calculator. Assume that appear to be tangent are tangent. r 1 2 4 3 5 6 8 7 Statements Reasons 1. A(-2, -1), B(0, 2), C(2, -1), D(0, -4) 4. Probability of the Complement of an Event P(not A) = 1 - P(A) Example A school has a photography display of 100 pictures. J(1, 3), K(3, 1), L(3, -2), M(-2, 3) For trapezoid HJKL, M and N are the midpoints of the legs. Round to the nearest degree. B is smaller than A, so the dilation is a reduction. Find the measure of each angle of the triangle. S 1 Q N 4. If the person is 6 feet tall, how far off the ground is the hot air balloon? In the figure at the right, AC \perp BD, or AC . A C A B 3. Example 1 P Q -3 -2 -1 0 1 2 The coordinates of P and Q are -3 and 1. 49 7 \$%) 10 m A = 64 m2 area ABCD - = k2 area FGJH # ' (x + A = 49 m2 Use this scale factor to find the value of x. = 5 42 + 32 = $\sqrt{25}$ GH = $\sqrt{32}$ G coordinate grid to find the JK = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 5$ and horizontal segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 5$ and horizontal segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 5$ and horizontal segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths of vertical segments AC and DF KG = $\sqrt{4} + 3 = \sqrt{25} = 522$ lengths at $\sqrt{25} = 522$ le Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc., AC AB, or BC A D B C N b. If m is the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then: • the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then y-intercept of the slope of a line, b is its y-intercept, and (x1, y1) is a point on the line, then y-intercept of the slope of a line, b is its y-intercept, and (x1, y1) is a point on the slope of a line, b is its y-intercept, and (x1, y1) is a point on the slope of the slo \angle NPR. \angle 9 and \angle 13 2. F E G H B A D C J b. -=9 () = 2(9) c. What is the ratio of length to width? 30° x° P 55° 168° R y° 1 y=- (168) 1 x=- (30 + 55) 2 2 1 (85) = -2 = 84 = 42.5 Exercises Find each measure. g: A square has four right angles. passes through C(-2, 5), parallel to LB Chapter 3 36 Glencoe Geometry NAME DATE 3-4 PERIOD Study Guide and Intervention Equations of Lines Write Equations of Lines You can write an equation of a line if you are given any of the following: • the slope and the y-intercept, • the slope and the y-i Probability of Two Dependent Events P(A and B) = P(A) P(BA) P(B|A) is the conditional probability and is read the probability that event B occurs given that event B occurs gi 8 = 5x - 614 = 2x7 = x - - - - FK is the perpendicular bisector of GM. Example Given: 3x + 5 > 8 Prove: x > 1 Step 1 Assume that x is not greater than 1. A competing satellite television service charges a flat rate of \$39.99 per month for the basic channels and an additional \$8 per month for each premium channel. Then you show that the assumption leads to a contradiction. Sometimes; if A, B, and C are collinear, they are contained in many planes. Refer to the figure at the right to identify each of the following. S B 35° 90° 25° R C T A m
\angle R + m \angle S + m \angle T = 180 60 + m \angle T = 180 m \angle T = 120 108° m \angle 1 + m∠A + m∠A = 180 Triangle Angle - Sum Theorem D E If an angle is inscribed in a circle, then the measure of the angle equals one-half the measure of its intercepted arc. Exterior Angle Theorem The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles. Chapter 12 161 Glencoe Geometry NAME 12-7 DATE PERIOD Study Guide and Intervention (continued) Spherical Geometry are true in spherical geometry. 1 a 125° b b 1 a Chapter 9 118 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of the figure along the translation vector. y 24 x + 22 30 3. 10 ft 5. Glencoe Geometry NAME DATE 9-6 PERIOD Study Guide and Intervention Dilations Draw Dilations A dilation is a similarity transformation that enlarges or reduces a figure proportionally. • To reflect a point in the y-axis, multiply its x-coordinate by -1. C H is a minor arc. NAME DATE 1-7 PERIOD Study Guide and Intervention Three-Dimensional Figures A solid with all flat between A and C. Chapter 3 40 9 10 12 11 13 14 16 15 m Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. " 4. The distance between the vertices at (2, 1) and (2, -2) for B is 3. ALGEBRA Find each measure. x 3. V R B D T U A S E --- -- Given: CD bisects AE, AB CD ∠E ∠BCA Prove: ABC CDE Given: 2S 2V, -- T is the midpoint of SV Prove: RTS UTV Chapter 4 C 51 Glencoe Geometry NAME 4-5 DATE PERIOD Study Guide and Intervention (continued) Proving Triangles Congruent -- ASA, AAS AAS Theorem Another way to show that two triangles are congruent is the AngleAngle-Side (AAS) Theorem. RST ~ MNP Write proportions to find x and v. A 2. 81 7-1 7-2 7-3 7-4 7-5 7-6 7-7 Ratios and Proportions 2 minutes 27 seconds. Subtract 15 from each side. Find the slant height. 1, 10, 100, 6783. DEF JGH by the SAS Postulate. Add. 25 2133. sphere: circumference of great circle = π cm 6. Find the area of parallelogram EFGH. γ Λ \tilde{r} Chapter 22. p: A number is a whole number. 12 in. 2 x = 225 Subtract 64 from each side. reflexive 3. h2 + 52 = 132 Pythagorean Theorem 2 h = 144 Simplify. 83 Similar Polygons Write a paragraph proof to show that 2 ABD 2CBD. 3 6 Chapter 6 80 4 5 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. So the area of PQR is 57.6 square inches. The lengths of MN and RS are written as MN and RS. If 2x > 14, then x > 7. BRIDGES The span of the Benjamin Franklin suspension bridge in Philadelphia, Pennsylvania, is 1750 feet. If the height of the dog. 2 ft w 5 in. The dance club is going to see either Sleeping Beauty or The Nutcracker at either Symphony Hall or The Center for the Arts. If $\angle R$ and $\angle S$ are supplementary, and $\angle R$ and $\angle T$ are supplementary, then $\angle T$ are supplementary, then $\angle T$ and $\angle S$ are congruent. AB DE 2. Chapter 2 22 Glencoe Geometry NAME DATE 2-5 PERIOD Study Guide and Intervention Postulates and Paragraph Proofs Points, Lines, and Planes In geometry, a postulate is a statement that is accepted as true. Write an equation in point-slope form of the line with slope 3 -- that contains (8, 1). Example 1 State whether the figure appears to have line symmetry. 2 cm 2 ft 18 cm 1 ft 3. Consecutive sides are perpendicular, so ABCD is a rectangle. $m \ne 3 W 2 80^{\circ} 80^{\circ} C P Z V 160^{\circ} Y 4$. If a point, M, is chosen at random on the line segment, then -- KL P(M is on KL) = -. A tangent segment is a segment of a tangent with one endpoint on the circle. Also: • All four angles are right angles. Exercises Determine whether the events are mutually exclusive or not mutually exclusive. Law of Syllogism If $p \rightarrow q$ is true, then $p \rightarrow r$ is also true. Example Use the figure to name each of the following. Express each ratio as a fraction and a decimal to the nearest hundredth. 5x 2. MST, if NS = 10 centimeters 8. C is the midpoint of AD. The three types of congruence transformation (or turn). are vertical angles. Theorem 11.1 64 - = k2 Substitution 8 - = k Take the positive square root of each side. NAME 13-4 DATE PERIOD Study Guide and Intervention Simulations Design a Simulation A probability model is a mathematical model that matches something that happens randomly. p r 3. y Example Position an isosceles triangle on the coordinate plane so that its sides are a units long and one side is on the positive x-axis. $\angle 7$ 5. AB CD 2. ADB ~ BDC so - B Geometric Mean (Leg) Theorem $15 = \sqrt{25x} 225 = 25x$ RP = 25 and SP = x 9=x Then y = RP - SP = 25 - 9 = 16 Divide each side by 25. Example There are several interesting shapes that are cross sections of a cone. Step 3 This contradicts the given information that 3x + 5 > 8. # 0 1 / + x , 0 % & x 2.5 2.5 MN LM KC JK 5 5 - = 2, - = - = 2. The triangle is an isosceles triangle, therefore KL m ∠L = m ∠M = 3x + 5. - 8, - Exercises 5 (85/5 (85/5 (-5/5 (and the origin are congruent. 1 / Step 1 Draw a segment from vertex L to point P. 73 Tests for Parallelograms..... restaurant critic has 10 new restaurants to try. = $\sqrt{(2 4) 4}$ Factor. Several statements can be joined in a compound statement. Defn of supplementary 3. R(-2, 1), S(-4, -1), T(0, -1) y 0 Chapter 10 y x 0 138 x Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. Substitution d. If m $\angle ABD = 60$, find m 2 BDC. Chapter 12 154 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Translation: along (-3, 4) Reflection: in x-axis y y x 0 3. The conjecture is false. Since EF CB, - = - Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Translation: along (-3, 4) Reflection: in x-axis y y x 0 3. The conjecture is false. characteristics: • • • • Corresponding angles are congruent Corresponding faces are congruent Corresponding faces are congruent, or neither. Chapter 1 11 Glencoe Geometry NAME DATE 1-6 PERIOD Study Guide and Intervention (continued) Two-Dimensional Figures Perimeter, Circumference, and Area The perimeter of a polygon is the sum of the lengths of all the sides of the polygon. 1 2 60° x 30° 3 9 $\sqrt{5}$. EH Chapter 3 12. For two positive numbers a and b, the geometric mean of a and b is a x 2 $\sqrt{}$ the positive number x in the proportion – x = –. Then graph the line. However, knowing that a conditional statement and its conclusion are true does not make the hypothesis true. Write a two-column proof to verify this conjecture. RT R 2.5 cm T 3 1-2 in. 2 1 - = A 2 A Use the inverse cosine. total number of outcomes 5005 Exercises 2. Copyright © by The McGraw-Hill Companies, Inc. P(A and B) P(A) 0.5 0.1 = -0.5 P(B|A) = - Conditional Probability 1 1 P(A) = - = 0.5 and $P(B) = - = 0.1 \ 2 \ 10 = 0.1 \ 2 \ 10 = 0.1 \ 2 \ 10 = 0.1 \ Simplify$. Prove: n is even. MODEL TRAIN The length of a model train is 18 inches. 8. LOGO The logo for an engineering company is on a poster at a job fair. $\angle P$ and $\angle A$ are supplementary; $\angle A$ and $\angle A$ are supplementary. Point X is collinear

with points A and P. Example: If $\angle 1$ and $\angle 2$ form a linear pair, then m $\angle 1 + m \angle 2 = 180$. If so, locate the center of symmetry, and state the order and magnitude of symmetry, and state the order and magnitude of symmetry. secant segment. 2 BK BU = - 3 2 16 = - BK 3 3, 6 24 = BK # \$ 4 BU + UK = BK 16 + UK = 8 Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. NAME 6 -5 DATE PERIOD Study Guide and Intervention Rhombi and Squares A rhombus is a quadrilateral with four congruent sides. AB 8. 3m 4m 4 ft 6 in. Exercises # \$' Triangle XYZ has vertices X(6, 5), Y(7, -4) and Z(5, -5). The drama club held tryouts for 6 roles in a one-act play. 6x = 24 4y = 18 x=4 y = 4.5 B 18 E 24 4y D C Exercises Find the value of each variable. of each variable. of each side. , \$ So, AB = 8(2) or 16. -- Given: Isosceles RST; U is the midpoint of base RT. tan 42 - tan 10 NAME DATE 8-6 PERIOD Study Guide and Intervention The Law of Sines and Law of Cosines The Law of Sines In any triangle, there is a special relationship between the angles. parallelogram PQRS has vertices P(4, 7), Q(6, 6), R(3, -2), and S(1, -1); 270° y 8 4 4 - 4 y 4 0 - 8 8x $4 - 4 \ 0 \ 8x - 8 - 4 \ 4 - 4 \ 8x - 4 - 8 - 8 \ Chapter 9 \ 116$ Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a div 3 Use the spinner to find each probability. B A D lies in plane 8. \$ 40° 5. Given 2.) 2x + 3x + 4x = 180 Triangle Sum Theorem 9x = 180 Combine like terms. If the plane cuts through the cone perpendicular to the base and through the center of the cone, then the resulting cross section will be a triangle. 20 m 9.5 in. rk! Example The cheer squad is made up of 12 girls. y " y # " x 0 x 0 x 0 0 x # Chapter 7 93 Glencoe Geometry NAME 7-6 DATE PERIOD Study Guide and Intervention (continued) Similarity Transformations Verify that a dilation produces a similar figure by comparing the ratios of all corresponding sides. This diagram is a counterexample because -- point Event is not on AC. The shape of a cross section depends upon the angle of the plane. = Multiply. Thus, \angle ABD \angle CBD. Theorem 2.9 Perpendicular lines intersect to form four right angles. - = - 28 1 = - 1.2 1 A B C F J 3 4 G H If \angle 1 and \angle 2 form a Example 2 right angle and m \angle 2 = 20, find m \angle 1. GF E F is a major arc. What is the ratio of home runs to the 270° multiply the x-coordinate by -1 and then interchange the x-and y-coordinates. If there is a 4 in 5 chance that your mom will tell you to clean your room today after school, what is the probability that she won't? complementary to the same 2 or are. The converse is also true. Find the measure of each angle. ER : 1 . 674.5 = x Use a calculator. b c. 1 2 3 so - 8 d 3 Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A Statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A Statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A Statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A Statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. x = 15 Take the positive square root of each side. Area of the rhombus. A statements -- -- 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. X = 15 Take the positive square root of each side. Area of the rhombus. A statements -- -- - 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. X = 15 Take the positive square root of each side. Area of the rhombus. A statements -- -- - 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. X = 15 Take the positive square root of each side. Area of the rhombus. A statements -- -- - 1. Exercises ALGEBRA Find x and y. D 25° F The triangle has one angle that is obtuse. X = 15 Take the positive square root of each side. Area of the rhombus and the positive square root of each side. Area of the rhombus and the positive square root of each side. Area of the rhombus and the positive square root of each side. Area of the rhombus and the positive square root of each side. Area of the positive square root of each as AB or as v. Exercises Find the number of possible outcomes for each situation. $(8x + 8)^{\circ}$ (9x + 1)° Chapter 3 m 3. 135 13. A D 2. Find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle EBF = 6x + 4 and m \angle CBF = 7x - 2, find the scale factor. X(0, 0), Y(15, 20) 14. If m \angle EBF = 6x + 4 and m \angle EBF = 6x + another isometry. area of PQR = 57.6 Simplify. $m \angle BAD = m \angle ABC$ 3x + 10 = 6x - 20 30 = 3x 10 = x m \angle ABC = 6x - 20 = 6(10) - 20 or 40 $\angle 1$ and 4x = \sqrt{ab} Definition of geometric mean. B D G H 5. U Area of a Regular Polygon has an area of A square units. a perimeter of P units, and an apothem of a units, 1 then A = - aP. If so, draw all lines of symmetry, and state their number. Determine each possible outcome and its theoretical probability. ABCD with A(1, 4), B(3, 2), C(2, -2), D(-3, 1) in the y-axis y O Chapter 9 y x O 112 x Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. You can describe the direction of a vector | AB by measuring the angle that the vector forms with the positive x-axis or with any other horizontal line. Write a flow proof. 101 Trigonometry...... BC BC 5. 39 Perpendiculars and Distance..... ... G 90° H 60° 30° I The triangle has one right angle Write an equation in slope-intercept form of the line having the given slope and y-intercept or given points. 67 Inequalities in Two Triangles K Y 35 10 13 X 3. 29 3-1 3-2 3-3 3-4 3-5 3-6 Parallel Lines and Transversals 0.75 in. 4 + 5.9 x° 8. A = 164 ft2 8. E(-2, 6), F(-9, 3) 13. Each vertex and its image are the same distance from the origin. It has one line of symmetry. If x - 8 = 32, then x = 40.3 C Exercises Quadrilateral ABCD is a rhombus. AB + BC = DE + EF proof. If the legs are congruent, the trapezoid is - - - SR TU; $\angle R \angle U$, $\angle S \angle T$ an isosceles trapezoid. The distance between Pineham and Menlo Fields is 10 miles. An acute angle has measure less than 90. x opposite $\tan 34^\circ = -\tan = -\operatorname{adjacent} 1000 (\tan 34^\circ) = x$ Multiply each side by 1000. 8 ft 20 cm 45° 15 cm 3. A(2, 2), B(3, 4), C(5, 2); r = 2.5 3 y 0 14 12 10 8 6 4 2 x 0 Chapter 9 122 y 2 4 6 8 10 12 14 x Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Divide each side by 12. The figure has rotational symmetry. ABC ~ DEF. B C E 1. Chapter 1 9 Glencoe Geometry NAME 1-5 DATE Study Guide and Intervention PERIOD (continued) Angle Relationships Perpendicular. 2 12 in. Each flat surface, or face, is a polygon. All apes love bananas. B B a 13 C 12 a2 + b 2 a2 + 122 a2 + 144 a2 a A = = = = c2 132 169 25 5 20 c C 30 a2 + b2 202 + 302 400 + 900 1300 $\sqrt{1300}$ Pythagorean Theorem b = 12, c = 13 Simplify. The edges -- --- are AB, BC, CD, AD, AE, BE, CE, and --- DE, 97 + m \angle RXT = 180 5. m \angle ADC 4. If an angle is a right angle, then the measure of the angle is 90. AP = PC and DP = PB If a quadrilateral is a parallelogram, then each diagonal separates the distance from E to AF F B A E F G Exercises Find the value of each variable. EG represents the distance indicated. RS = 2x, ST = 5x + 4, and RT = 327. A(-3, 1), B(-1, 1), C(-1, 4)2. : A(3, 1), B(-2, 3)1. Find UK and BK. 1 - 5 Reasons 1. Use the following guidelines. • If all three of the angles of a triangle is an acute triangle. E J $3x^\circ$, H. CU + 6 8. 1 1 / Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. It is a scalene triangle. -- Given: Q is the midpoint of PR. M N P R Q R Example Refer to the figure above. Statements 1. If she chooses will be vanilla, chocolate, and strawberry? and CD. m s r D (3x + 10)° n 2 1 m B A (6x - 20)° C n Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. y y 0 x 0 x 2. Exercises Given each set of vertices, determine whether ABCD is a rhombus, rectangle, or square. 5 () area of PQR 6 - = - area of JKL (5) Write
a proportion. Exercises Then identify the transformation, and verify that it is a congruence transformation. 37 Proving Lines Parallel $.7 \times 5 \times 4.312$ C Q M E N 70° F AC 6 2 - = - = - 4 P 6 R 70° S 8 3 6 MN NP - = - , so - = - . Example The two conditional statements below are true. T A ≈ 8.2611 () aP = - 60 (8.26) or 247.8. So, A = - 2 2 The area is about 248 square centimeters. V 2 P R Example 1 S Verify the formula 1 A = - aP for the regular pentagon Guide and Intervention (continued) Symmetry In Three-Dimensional Figures A three-dimensional figure has plane symmetry if the figure can be mapped onto itself by a reflection in a plane. If the leg of a 45°-45°-90° Example 1 right triangle is x units, show that the hypotenuse is x $\sqrt{2}$ units. The polygon has five sides, so it is a pentagon. 5 cm a. 20 ft 20 ft 6. Round to the nearest hundredth. A survey found that about 90% of the junior class is right handed. Assume that --- -- 4. 4 and 46 Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding, or consecutive interior angles. Conclusion: Berta's eggs are brown. Determine the truth value of each conditional statement. 35 yd 15 yd 20 m 146 Glencoe Geometry NAME DATE 11-5 PERIOD Study Guide and Intervention Areas of Similar Figures If two polygons are similar, then their areas are proportional to the square of the scale factor between them. 1. y - y1 = m(x - x1) Point-slope form 3 y - 1 = -- (x - x1) Point-slope form 3 y - 1 = --- (x - x1) - 8) 3 m = --, (x1, y1) = (8, 1) 4 4 4 The point-slope form of the equation of the 3 line is y - 1 = - (x - 8). If BD = 8y - 4 and AC = 7y + 3, find BD. Thus m 4 = 90 and m 4 = 9 $\sqrt{(-3 - (-2))2 + (0 - 3)2 \text{ or } \sqrt{10 \text{ BC}}} = \sqrt{(-2 - 4)2 + (3 - 1)2 \text{ or } \sqrt{40}(4 - 3)2 + (1 - (-2))2 \text{ or } \sqrt{40 - (3 - 3)2} + (0 - (-2))2 \text{ or } \sqrt{40 - (3 - 3)2} + (0 - (-2))2 \text{ or } \sqrt{40 - (3 - 4)2}$ hypotenuse of a 45°-45°-90° triangle with a leg length of 14 centimeters. Prop. Then use a protractor to measure the angle to the nearest degree. Substitution Add 13 to each side. If lines, then corres. 50 < 90, so ∠ABD is an acute angle. 18 is divisible by 6. Then find the probability. The triangle is an isosceles triangle. Use the Pythagorean Theorem with right ABC. No line containing any of the sides will pass through the interior of the pentagon, so it is convex. U Y Z X P Chapter 1 S R F 4. Exercises Find the perimeter and area of each triangle. x C 324 = 225 + 15x Multiply. RS = 5x, ST = 3x, and RT = 48 6. Seg. Triangle Inequality Theorem 3. two vertical angles \$ ∠EFI and ∠GFH are nonadjacent angles formed by two intersecting lines. The ratio of the sides of a triangle is 8:15:17. STUDENT COUNCIL According to the table shown at the right, what is the probability that a person on a student council committee is a junior or on the service committee? extremes, so ad = bc. $\angle 312435687$ w 11. to BD Example A B C D and ZP are perpendicular. They are adjacent angles. A figure in a plane has rotation between 0° and 360° about the center of the figure, called the center of symmetry. which is 6 ÷ 0.75 or 8 miles per inch. The measures of $\angle Y$ and $\angle W$ are not congruent, so $\angle X \ \angle Z$. Find m $\angle ABC$ so that We can conclude that m n if alternate interior angles are congruent. hypothesis Example 2 if-then form. y For line p, substitute (1, 2) for (x1, y1) and (-2, -2) for (x2, y2). Therefore, ABCD is a parallelogram by Theorem 6.9. NAME 6 -4 DATE PERIOD Study Guide and Intervention Rectangles Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. and BC are opposite rays. $\sqrt{5}$ 12, $\sqrt{13}$ 8. BC = DE 2. B h D E Area of a parallelogram A = bh = 30(18) b = 30, h = 18 = 540 Multiply. B Exterior Angle Inequality Theorem The measure of an exterior angle of a triangle is greater than the measure of either of its corresponding remote interior angles. What is the probability the parachutist lands somewhere in the target? Example The vertices of ABCD are A(-3, -1), B(-1, 3), y B C C(2, 3), and D(4, -1). m $\angle 1$ m $\angle 3$ m $\angle 4$ m $\angle 5$ m $\angle 6$ m $\angle 7$ m \angle 2 2 2 2 2 2
2 2 4 3 4 5 6 8 7 n p Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. R(-1, 0), S(3, 0), T(2, -3); Distance Formula 4. Example 1 Write a conjecture about the next number in the sequence 1, 3, 9, 27, 81. Therefore, Chapter 5 65 Glencoe Geometry NAME 5-4 DATE Study Guide and Intervention PERIOD (continued) Indirect Proof Indirect Proof with Geometry To write an indirect proof in geometry, you assume that the conclusion is false. Given: Two angles supplementary to the same angle are congruent. Use the formula (x - h)2 + (y - k)2 = r2 with h = -1, k = 3, and r = 6. 119 Dilations of a figure is the number of square units needed to cover a surface. --- --- Step 2 Draw AD, BE, and CF, each at 3 units. If an angle is acute, then its measure is less than 90. For each pair of similar figures, find the area of the shaded figure. L = Ph Lateral area of a prism = 75(10) P = 75, h = 10 = 750 Multiply. Example B' Draw the dilation image of ABC with center O and r = 2. The image is A' B' C' D'. S W 3. 16 ft 32 m 3. Definition of congruence of segments 3. A(-3, 1), B(-3, 3), C(3, 3), D(3, 1); Distance Formula 2. B C F E D Find the sum of the measures of the exterior angles of each convex polygon. $m \angle 1 = m \angle 2 3x + 15 = 4x - 5 - 3x =$ p q 1 r s, so $m \angle 2 = m \angle 3$ because they are corresponding angles. --- --- 1. measures are greater than $m \angle 2 S 7$. given 2. Substitution 3x - 6 f. 18 1 C $\sqrt{3} K 18 Q I 32x 8x C W 17 12 18 5$. --- Step 3 Draw BC and DEF. If the measure of $\angle A$ is less than 90, then $\angle A$ is acute. x 6. Converse $q \rightarrow p$ exchanging the hypothesis and conclusion If two angles are congruent, then they are vertical angles. $\angle P \ \angle R$ and $\angle S \ \angle Q$ If a quadrilateral is a parallelogram, then its consecutive angles are supplementary. hexagon 6. Given: $\angle 1 \ \angle 5, \ \angle 15 \ \angle 5$ Prove: m, r s Proof: s NAME DATE 3-6 PERIOD Study Guide and Intervention Perpendiculars and Distance From a Point to a Line When a point is not on a line, the distance from the point to the line is the length of the segment that contains the point and is perpendicular to the line. If AB = CD, then -225. $S = \pi r \ell + \pi r 2 \approx 188.4 + \pi (62) \approx 301.4$ Surface area of a right cone $\pi r \ell \approx 188.4$, r = 6 Simplify. Exercises Name an angle or angle pair that satisfies each condition. Given: 4x + 8 = x + 2Prove: x = -2 Proof: Statements Reasons Reasons a. NAME DATE 6 -6 PERIOD Study Guide and Intervention Trapezoids and Kites Properties of Trapezoids and Kites Properties of Trapezoids base A trapezoid is a guadrilateral with S T exactly one pair of parallel sides. If XY is a midsegment, then XY 2 -- -- In ABC, EF CB. A 1 2 T 60° W Chapter 4 30° 20° 152° G S 45 1 D Glencoe Geometry NAME DATE 4-2 PERIOD Study Guide and Intervention (continued) Angles of Triangles Exterior Angle Theorem At each vertex of a triangle. AB + DE = AC Chapter 2 C D E Reasons 1. --- CD is a radius, so CD = 8 and AC = 9 + 8 or 17. ° R 18 M \angle MPN is formed by two secants that intersect in the exterior of a circle. $- = -2 \times 88 \times +24 \times 10 \times +13 \times 6.$ l = 10 Take the square root of each side. O(-12, 0), P(-8, 3) 15. D(-1, 1), E(2, 4), F(6, 4), G(3, 1); Slope Formula 3. • To reflect a point in the x-axis, multiply its y-coordinate by -1. m: -3, (1,-11) Write an equation in point-slope form of the line having the given slope that contains the given point. 2x + 51.9 cm D Find x and AC. 52. The geometric mean a = 12 and b = 3 Factor. 34 ft 1. $\angle 14$ q 1 2 4 3 9 10 12 11 5 6 8 7 m 13 14 16 15 n In the figure, m $\angle 9 = 80$ and m $\angle 5 = 68$. If m $\angle AED = 12x$ and m $\angle BEC = 10x + 20$ find m \angle AED. 4 Exercises Find the length of each line segment or object. % (& " ' # b. The line segments where the faces intersect are called edges. If m \angle PQT = 60 and m \angle PQS = 4x + 14, find the value of x. A 49° 400 ft Sun 2. If a quadrilateral is a parallelogram, then its opposite sides are congruent. Find m \angle CEB. 24 Chapter 7 20 33 35 6. Reasons ----- AB || CD and AB CD, or AD || BC and AD BC, the diagonals bisect each other, one pair of opposite sides is congruent and parallel, then: the figure is a parallelogram. (3 ' 4 7 4 8 Chapter 9), 121 + Glencoe Geometry NAME DATE 9-6 PERIOD Study Guide and Intervention (continued) Dilations Dilations In The Coordinates of each point on the preimage by the scale factor of the dilation, r. x2 + (y - 1)2 = 9 y O y x 0 x Write an equation of a circle that contains each set of points. Shade the tops of each column. Incenter Theorem The angle bisectors of a triangle intersect at a point called the incenter that is equidistant from the sides of the triangle. If points are on the same line, they are collinear. Then find the probability of the complement of A. $\angle 1$ $\angle 2$ $\angle 1$ $\angle 3$ 2. 7. Graph XYZ and its image after the indicated glide reflection. ICE CREAM Kali has a choice of 20 flavors for her triple scoop cone. Use a spinner divided into two sectors, one containing 40% of the spinner's area, or a central angle of 144°, and the other 60%, or 216°. AAS Theorem If two angles are congruent to the corresponding two angles and a nonincluded side of one triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles are congruent to the corresponding two angles and a nonincluded side of a second triangle are congruent to the corresponding two angles are congruent to the corresponding two angle 5 in. Draw the diagonal of the parallelogram from the initial point. 62° 3. F - 5x 6x - 5 6x° 3. PK = KT 5. If - - - - - If X and Y are the midpoints of RT and ST, then XY is a midsegment of the triangle. Q C 7. $\angle P \angle T - - 3$. 2 ft c. If $m \angle CDB = 6y$ and $m \angle ACB = 2y + 10$, find y. 3. 4 9 x 3. - - - 7. 18 NAME 8-5 DATE PERIOD Study Guide and Intervention Angles of Elevation and Depression Angles of Elevation and Depression Many real-world problems that involve looking up to an object can be described in terms of an angle of elevation, which is the angle between an observer's line of sight and a horizontal line. In a 30°-60°-90° right triangle, show that the $\sqrt{}$ hypotenuse is twice the shorter leg and the longer leg is 3 times the shorter leg. Find the geometric mean between each pair of numbers. If HJ = 7, find HG. Division Property of Equality b a - If a = b and c $\neq 0$, then, -c = c. A(0, 0), B(1, 3), C(5, 3), D(4, 0); Slope Formula 2. C T b F 18 m H 30 m G Exercises Find the perimeter and area of each parallelogram. 12 and 20 6. Exercises Find the lateral area and surface area of each prism. % Complete the following proof. from E to AF A \perp AF . • A chord that passes through the circle's center and made up of collinear radii is a diameter. Use the disjunction table. For all real numbers, if a + b > c, then a > c - b. PR = QS 5. All of the angles are congruent, so it is equiangular. Chapter 11 139 6.7 cm 7 cm 2 cm 15 cm 11 cm Glencoe Geometry NAME DATE 11-1 PERIOD Study Guide and Intervention (continued) Areas of Parallelograms and Triangles The area of a triangle is one half the product of the base and its corresponding height. Exercises ALGEBRA Find the value of each variable. $\angle 6$ 3. An equilateral triangle has an altitude length of 36 feet. y + y 2 - 2 + 4 4 + 1, -) or (1, 2.5) = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64}
- 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-3} - 5)2 + ((-3 - (-3))2 = \sqrt{-64} - 8$ AC = $\sqrt{-64} - 8$ same length; the figure is a rectangle. Chapter 12 10 cm 8 cm 20 cm 4 in. 35 Equations of Lines measures are less than m < 1 U 3 5 4. Divide each leg. ST > RT NAME 6 -1 DATE PERIOD Study Guide and Intervention Angles of Polygons Polygon Interior Angles Sum The segments that connect the nonconsecutive vertices of a polygon are called diagonals. all segments skew to AG O X R A S G Chapter 3 31 Glencoe Geometry NAME 3-1 DATE PERIOD Study Guide and Intervention (continued) Parallel Lines and Transversals Angle Relationships A line that intersects two or more other lines at two different points in a plane is called a transversal. 4 -- Look at line segment KL. Through any three noncollinear points, there is exactly one plane. N 30° 67° L O 3.) NAME DATE 9-2 PERIOD Study Guide and Intervention Translations A translation is a transformation that moves all points of a figure the same direction. In the figure, ABC RST. Example Write an expression or formula for the perimeter and area of each. P S Q R If PQRS is a parallelogram, then its opposite angles are congruent. 1 cm 6. • If two secants are drawn to a circle from an exterior point, then the product of the measures of one secant segment and its external secant segment. Add 10 to each side. q: A number is an integer. If HJ = 18 and MN = 28, find LK. P M 2.2 x T T 26 16 M 18 5. TU TS x 15 - = - 20 S 30 15 30 R 30x = 20(15) 30x = 300 x = 10 x U 20 T Exercises Find the value of each variable. Substitution 8. Dilations are completed with respect to a center point and a scale factor. b. Rewrite (x + 3)2 + (y - 1)2 = 9 to find the center and the radius. Chapter 2 26 Glencoe Geometry NAME 2-7 DATE PERIOD Study Guide and Intervention Proving Segment Addition Two basic postulates for working with segments and lengths are the Ruler Postulate, which establishes number lines, and the Segment Addition Postulate, which describes what it means for one point to be between two other points. Chapter 8 101 Glencoe Geometry NAME DATE 8-3 Study Guide and Intervention PERIOD (continued) Special Right Triangles Properties of 30°-60°-90° Triangles The sides of a 30°-60°-90° right triangle also have a special relationship. P S 3x° (8x + 2)° Q R 6. PL MT 2. ∠SXT and ∠RXT are supplementary 2. - - - - - Since both pairs of opposite sides have the same length, AB CD and AD BC. A lunch at Lincoln High School contains one choice from each category Chapter 13 176 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. In K, AB CD. The diagonals of a rectangle are congruent, so US = RT. The 96 result is - , which is about 0.59. are alternate interior angles. - AB is tangent to C. Chapter 3 38 Glencoe/McGraw-Hill Companies, Inc. In K, AB CD. The diagonals of a rectangle are congruent, so US = RT. The 96 result is - , which is about 0.59. are alternate interior angles. a division of The McGraw-Hill Companies. Inc. The distance between the vertices at (0, 3) and (4, 3) for B is 4. S to PQ P S R B Q T U S T 5. S BC = BA, so $m \angle A = m \angle C 5x - 10 = 5x = 15 T 2x R (5x - 10)^{\circ} m \angle S = m \angle T$, so SR = TR 3x - 13 = 2x 3x = 2x + 13 x = 13 Isos. A(-1, 1), B(3, 2), C(1, -2), D(-2, -1) 4. Copy and reflect figure P in line a and then line b. - = - y 18.2 2x + 3 5 5. BE " & In CDE, U is the centroid, UK = 12, EM = 21, and UD = 9. 1 2 3 6. q ~r Chapter 2 17 Glencoe Geometry NAME DATE 2-2 PERIOD Study Guide and Intervention (continued) Logic Truth Tables One way to organize the truth values of statements is in a truth table. The scale factor is 1:2. Any other letter or number can be used multiple times. 6 8 3 x 6 8 x +7 x 5., 6. Substitution Complete each proof. 75° 2. 360 The measure of central angle RAS is – or 5 72. The length of RS 4 3 is about 1 – inches. Exercises Solve each proportion. x 45° 45° x 18 x 4 x 45° 8 4. 2x° 2. To find the number of combinations of n distinct objects taken r at a time, denoted by nCr, use the formula: n! Cr = -n(n - r)! r! Example Taryn has 15 soccer trophies but she only has room to display 9 of them. Congruent angles: $\angle A \ \angle X, \ \angle B \ \angle Y, \ \angle C \ \angle Z \ BC \ CA \ AB$ Proportion: $- = - = -XY \ YZ \ ZX \ \$ \ 9$; Example 2 Determine whether the pair of figures is similar. 107 Vectors.... BE + BD + CF + CE = 12 + 12 + 6 + 6 + 8 + 8 = 52 The perimeter is 52 units. $m \neq 1 = m \neq 2$ 2. NAME DATE 1-3 PERIOD Study Guide and Intervention Distance on a Number Line Distance on a Number Distance on a Number Line Distance on a Number Line Dista $|x_2 - x_1| A(x_1, y_1) x 0 Example 1$ Find the distance Example 2 between A(-2, -1) and B(1, 3). 6x The diagonals bisect each other, so AE = CE and DE = BE. $(15x + 30)^\circ (3y + 18)^\circ 10x^\circ (4x + 10)^\circ 3$. O P B The figure is a rectangular pyramid. $\angle MPR P 5$. PR = QS 7. Find the sum of the measures of the interior angles. Chapter 2 19 Glencoe Geometry NAME 2-3 DATE Study Guide and Intervention PERIOD (continued) Conditional Statements Converse, Inverse, and Contrapositive If you change the hypothesis or conclusion of a conditional statement, you form related conditionals. 4 The scale factor is - or 2. y = x + 3 y=x-1 3. The Volume is about 603.2 cubic inches. 133 10-7 Special Segments in a The distance between the vertices at (2, 3) and (2, -3) for A is 6. Find AB. Chapter 2 15 Glencoe Geometry NAME 2-1 DATE Study Guide and Intervention PERIOD (continued) Inductive Reasoning and Conjecture is not true. 2 in. r Volume of a Sphere 4 3 If a sphere has a volume of V cubic units and a radius of r units, then $V = -\pi r$. G m \angle HEC + m \angle CEF + m \angle GEH = 360 • The measure of its central angle. measure of a minor arc is less than m $\angle 7$ 6 1 4 2 T W Exercises 3-8 V 6. Subtracting a vector is equivalent to adding its opposite. Vertical Angles Theorem If two angles are vertical angles, then they are congruent. -3 - (-1) 4 slope of $AB = - = -20 \times 2 - 1 - (-3) AB = \sqrt{(-3) - (-1)(-3)} AB$ + 16 = $\sqrt{20}$ = 2 $\sqrt{5}$ --- --- Exactly two sides are parallel, AD and BC, so ABCD is a trapezoid. 4 and 412 alternate exterior angles c. 2 x $\sqrt{2}$ The hypotenuse is $\sqrt{2}$ times the leg, so divide the length of the hypotenuse by $\sqrt{2}$. 4x + 6 the actual height of the dog is 2:3. Helen could be wearing pearls on a date. 1 The surface area S of a regular pyramid is $S = -P\ell + B$, 2 where ℓ is the statement "An elephant is not a mammal." Join "p and q with the word and: An elephant is not a mammal and a square has four right angles. That is, the model is - as tall as the actual house. (- 2 2 1 2 1 2 - - Find the coordinate of the midpoint of PQ. The conclusion is invalid. t gh si of line Y Example The angle of elevation from point A to the top of a cliff is 34°. 200 300 Region Exercises 1. Students who draw even numbers will bring desserts. The length of arc can be found using the following equations: $x \cdot Y^{\circ}S = -2\pi 360$ Example AB. Identify two obtuse vertical angles. Substitution If a is equilateral. If BC = 24 and AD = 5y - 1, find y. If the spinner lands on a line it is spun again. Chapter 13 175 4PQI + VOJPS 4FOJPS 4FSWJDF "EWFSUJTJOH %BODFT "ENJOJTUSBUJWF -JBJTPO \$PNNJUUFF Glencoe Geometry NAME DATE 13-6 PERIOD Study Guide and Intervention (continued) Probabilities of Mutually Exclusive Events Probabilities of Complements The complement of an event A is all of the outcomes in the sample space that are not included as outcomes of event A. Example State whether the figure at the right. A statement p is true. A captain and a co-captain are selected at random. B S M 3. The three medians of a triangle intersect at the centroid of the triangle. (x + 2 x 1 2 1 2, - M = - NAME 1-4 DATE PERIOD Study Guide and Intervention Angle Measure Measure Measure Measure for a disjunction. Given Reflexive Property of congruence Given Definition of angle bisector 5. A D 7. $\pm 1. \text{m} \leq \text{SXT} > \text{m} \leq \text{RXT} = -+-61\ 61\ 26 = - \text{ or about } 43\%\ 61\ \text{Copyright} \ \textcircled{C}$ Glencoe/McGraw-Hill, a division of The McGraw-Hill, a div 7y - 3 and m \angle FBC = 3y + 3, find the value of y . 20 26 52° 18 x° 80° 16 84° 40° x° 4. This illustrates the Triangle Inequality Theorem. X P All three sides are congruent. K(-11, 2), L(-19, 6) Chapter 1 6 Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. \angle 15 \angle 51. If two nonidentical lines intersect at a point, they do not intersect again. Reflexive Property Symmetric Property Transitive Property Transitive Property ---- AB AB ---- If AB CD, then CD AB. Find x. H M 6. --- V is the midpoint of WX. If two secants, a secant and a tangent, or two tangents intersect in the exterior of a circle, then the measure of the angle formed is one half the difference of the measures of the intercepted arcs. • If two segments from the same exterior point are tangent to a circle, then they are congruent. What is the probability that a fan choosing a poster at random will choose a poster of the center fielder or the shortstop? Theorem 2.12 If two angles are congruent and supplementary, then each angle is a . Exercises Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 111 Translations Example 1 Write a compound statement for each conjunction. V 60° W U 5. For any convex polygon, the sum of the measures of its exterior angles, one at each vertex, is 360. If AB =
RS and TU = RS + WY. cubic foot cubic yard 27 cubic foot cubic yard V = Bh Volume of a prism = (6.3)(3.5) B = 6.3, h = 3.5 = 22.05 Multiply. For each pair of similar figures, use the given areas to find the scale factor from the unshaded to the shaded figure. The larger size has a radius of 2.5 in The extended ratio 2:3:4 can be rewritten 2x:3x:4x. Example Write a two-column proof. $4m \ 2m \ 4$ in. $4 \ cm \ 10$ in. $Y \ 1. \ 12 \ m \ p$ The area of the circle is about 113.04 square meters. % 144 2.5 in. The statement $\angle A$ and $\angle C$ are supplementary to $\angle B$ is the hypothesis of the conditional. If $m \angle CBD = 58$, find $m \angle ACB$. Method 2: Use the Distance Formula, d = $(x_2 - x_1)_2 + (y_2 - y_1)_2$. The volume is about 2144.7 cubic centimeters. 135 · 48,000 = 200 · x \leftarrow all voters NAME DATE 7-2 PERIOD Study Guide and Intervention Similar Polygons like the same shape but not necessarily the same size. How far from the base of the tower is the airplane? ALGEBRA Find x and the length of each side if RST is an equilateral triangle. QP 9 R L x 7.2 V 8 P 16 F M Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. Exercises Find the measure of each numbered angle and name the theorem that justifies your work. If $m \angle 1 = m \angle 2$, then $m \angle 2 = m \angle 1$. x ft 8 x in . top view left view • The right and left views indicate that the height of figure is three blocks. 1.5 ft and 5.5 ft 8. Find m 4 MSN. Graph and RS Determine whether MN each line to verify your answer. Then describe a single transformation that maps P onto P. O NAME DATE 11-1 PERIOD Study Guide and Intervention Areas of Parallelograms and Triangles Areas of Parallelograms Any side of a parallelogram can be called a base. The truth value of a statement is either true (T) or false (F). 2 cm 3 yd 1.5 cm 6 cm 4 cm Chapter 12 7 yd 155 4 yd Glencoe Geometry NAME DATE 12-4 PERIOD Study Guide and Intervention (continued) Volumes of Prisms and Cylinders The volume of a cylinder is the product of the height and the area of the base. hemisphere: area of great circle ≈ 50 m2 Chapter 12 160 Glencoe Geometry NAME DATE 12-7 PERIOD Study Guide and Intervention Sphere Up to now, we have been studying Euclidean geometry, where a plane is a flat surface made up of points that extends infinitely in all directions. A spinner with 4 equally spaced sections numbered 1 through 4 is spun and lands on 1, then a die is tossed and rolls a 1. dodecagon 12. 6 ft radius of the small sphere 2 1 -- = - or - radius of the small sphere 2 1 -- = - or - radius of the small sphere 2 1 -- = - or - radius of the small sphere 2 1 -- = - or - radius of the small sphere 2 If m 2 = m + 2, determine which lines, if any, are parallel. B A B C a. R 11 S N 8 Q x T Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Find the probability of each event. Exercises Find the measures of each numbered angle. P 8 PQ 2 QR 12 2 RS 10 2 Z 9 3 ZW - = - = - . 87 Parallel Lines and Proportional Parts Name a point not on AC 4. - - - AB and AD are external secant segments. Example Verify congruence after a transformation. $90 = m \angle 1 + m \angle 2$ f. 24 yd 12 yd 20 m 18 ft 50 m 5 in. Exercises COORDINATE GEOMETRY Find the coordinates of the orthocenter of each triangle. (x, y) (2x, 2y) A(-2, -2), A(-4, -4) B(1, -1) B(2, -2) C(0, 2) C(0, 4) Graph ABC and its image ABC y \$"0 \$'x # #'" Exercises Graph the image of each polygon with the given vertices after a dilation centered at the origin with the given scale factor. Example 2 Quadrilateral RUTS above is a rectangle. What is the volume of the larger pipes? P(-4, 1), Q(-2, 4), R(0, 1), S(-2, -2), W(1, -1.5), Z(2, -3) 94 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. This is a reflection. Draw and label a figure for each relationship. consecutive interior angles NAME DATE 3-2 PERIOD Study Guide and Intervention Angles are congruent. Noncollinear points R, S, and T arecompany and label a figure for each relationship. contained in exactly one plane. BD BD 3. Area of a Sector 360 Example Find the area of the shaded sector. $m \angle 1$ 2. 5 cm $\sqrt{2}$ cm 12 cm $\sqrt{2}$ cm $\sqrt{2}$ cm 12 cm $\sqrt{2}$ cm side but no common interior points. The triangle is an equilateral triangle. Find x if $m \ne 1 = 5x + 8$ MR and $m \ne 2 = 8x - 16$. Write yes or no. The angle formed by the legs is called the vertex angle. Polygons can be concave or convex. - - - - - In the figure, AC and DE are in plane Q and AC || DE. If Jason is 6 feet tall, how tall is the garage to the nearest foot? Exercises Find the lateral area and surface area of each regular pyramid. 8.7 in. Prove: $22 \ 23$ Proof: Statements - - - a. If the axis is not the altitude, then the cone is an oblique cone. This is known as an indirect proof. 1 D 2. --- R is the midpoint of QS. 3 cm 14 yd 5 cm 4 cm COORDINATE GEOMETRY Graph each figure with the given vertices and identify the figure. D E H b. Glencoe Geometry NAME DATE 11-4 PERIOD Study Guide and Intervention Areas of Regular Polygons and Composite Figures Areas of Regular Polygons In a regular polygon, the segment drawn from the center of the polygon perpendicular to the opposite side is called the apothem. Is it possible to form a triangle with the given side lengths? Many coordinate proofs use the Distance Formula, or Midpoint Theorem. That is, x = 1 or x < 1. B, OB, and OC. y E D F' G' x O G F D' Exercises E' y' (Graph FGH and its image in the given line. + + 12 13 16, , , Chapter 8 12 40 32 20 24 13 6 - - 103 Glencoe Geometry NAME DATE 8-4 PERIOD Study Guide and Intervention (continued) Trigonometric Ratios You can use a calculator and the sine, cosine, or tangent to find the measure of the angle, called the inverse of the trigonometric ratio. Therefore, Chapter 5 66 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. The materials are organized by chapter and lesson, with two Study Guide and Intervention worksheets for every lesson in Glencoe Geometry. Prove: \angle SRT \angle URT R T U 52 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 28 m Area of a triangle 2 1 (24)(28) = - b = 24, h = 28 = 336 Multiply. The distance between the vertices at (-3, 4) and (-1, 4) for A is 2. B A intersect point D? If today is Wednesday, then yesterday was Friday. A kite is a quadrilateral with exactly two pairs of consecutive sides congruent. " " " " m m m The compositions of two parallel lines is the same as a translation. Show that ABCD is a trapezoid and determine whether it is an isosceles trapezoid. If she chooses 4 of the dogs at random to take an extra trip to the dog park, what is the probability that Fifi, Gordy, Spike and Fluffy are chosen? Mikey's baby sister can drink either apple juice or milk from a bottle or a toddler cup. The flagpole is 28 feet tall. North Park and Menlo Fields 3. Exercises NAME DATE 8-1 PERIOD Study Guide and Intervention Geometric Mean The geometric mean between two numbers is the positive square root of their product. Example 1 Find the sum of the measures of the exterior angles, one at each vertex, of a convex 27-gon. Chapter 10 123 Glencoe Geometry NAME DATE 10-1 PERIOD Study Guide and Intervention (continued) Circles and Circumference of a circle is the distance of a circle is around the circle. ∠BAD ∠BCD 4. 5 8 Subtract 89 from each side. The surface area is the sum of the lateral area and the area of the bases. • corresponding angles • alternate exterior angles • alternate exterior angles are supplementary. If HJ = 32 and LK = 60, find MN. In the figure at the --- right, AP is the apothem and AR is the radius of the circumscribed circle. O Y R • In a circle, the perpendicular bisector of a chord is the diameter (or radius). x x 28 11 33 Use a Pythagorean Triple to find x. 1 ft 3 1 - = - or - 4 ft 4 ft 12 in. Exercises Find the volume of each pyramid. A = 8050 ft 2 147 Glencoe Geometry NAME DATE 11-5 PERIOD Study Guide and Intervention (continued) Areas of Similar Figures Scale Factors and Missing Measures in Similar Figures to find the scale factor between them or a missing measure. In G, is the intercepted arc for inscribed angle $\angle DEF$. r = 3 8 4 \$ 5 4 ; 9 : 2 5. 105° 115° 60° 120° x° - - - BD and AC are diameters of O. 8, 8, 8, 4. 16 ft 15 in. S(-2, 4), T(-1, -1), U(3, -4), V(2, 1); Distance and Slope Formulas 6. = -2.5 2.5 NP PL GH HJ JK KC = -, GHJK ~ LMNP. (11x + 4)° (5y + 5)° 4. FG if and only if \angle CEF \angle FEG. S to RT P S T Q S Chapter 3 R 41 T Glencoe Geometry NAME DATE 3-6 PERIOD Study Guide and Intervention (continued) Perpendiculars and Distance Distance Between Parallel Lines The distance between parallel lines is the length of a segment that has an endpoint on each line and is perpendicular to them. 15 ft 3. T(1, -2), U(6, -2) 6. BALLOON The angle of depression from a hot air balloon in the air to a person on the ground is 36°. BD - - 8. Polygon Interior Angle Sum Theorem The sum of the interior angle measures of an n-sided convex polygon is (n - 2) \cdot 180. 1.5, 2.5, 3 Find the range for the measures of two sides. If $\angle A$ is a right angle, then m $\angle A$ = 90 and m $\angle C$ + m $\angle A$ = 100 + 90 = 190. Inequality 7. If you study for the test, then you will receive a high grade. • A segment with endpoints that are at the center and on the circle is a radius. A largest angle of a triangle is opposite the largest side. If the number rolled is less than 5, what is the probability that it is the number 2? Find m ∠JRK. \$ 1 " & Example In rhombus ABCD, m ∠BAC = 32. Example For each diagram, determine which pairs of triangles can be proved congruent by the SAS Postulate. P(M is on RP) - - 4. 157 12-6 Surface Areas and Volumes of Spheres 1000 yd 208 yd 19° 120 ft ? equilateral
triangle EQI with vertex Q(0, $\sqrt{3}$ b) and sides 2b units long 57 x Glencoe Geometry NAME 4-8 DATE PERIOD Study Guide and Intervention (continued) Triangles and Coordinate Proof Write Coordinate Proofs Coordinate proofs can be used to prove theorems and to verify properties. Step 1 translation along $\langle -2, -1 \rangle$ Step 2 reflection in the x-axis. • definition of triangle congruence • ASA Postulate • SSS Postulate • ASA \approx 113.1 Simplify. Example Joni got on base 40% of her times at bat last season. State any assumptions. x° 2. Congruent solids are similar solids are similar solids with a scale factor of 1:1. LMN has vertices L(-1, -1), M(0, -4), and N(-6, -2); 90° y y 8 4 4 0 -8 -4 4 0 8x -8 -4 -4 -8 -8 3. The figure has order 4 symmetry and magnitude of 360 ÷ 4 or 90°. C E 1. Given Vertical Angles Theorem Triangle Inequality Theorem CPCTC 68 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. The lateral faces intersect in a common slant height point known as the vertex. A Use a calculator. K is the midpoint of PT. 6. $\angle W \ \angle P, \ \angle X \ \angle Q, \ \angle Y \ \angle R, \ \angle Z \ \angle S$ Corresponding angles are congruent. Exercises State whether the figure has plane symmetry, axis symmetry, both, or neither. Determine whether each statement is always, sometimes, or never true. m 2 8 6. Menlo Fields 0.75 in. C I F J E 6. m 2 = m 3 3. Method 2: Use the Distance Formula. Never; the intersection of two lines is one point. M(-1, 3), N(4, 4), R(3, 4), R(3, 4), R(3, 4), R(3, 4), R(3, 4), R(3, 4), R(4, 4), R(1), S(-2, 2) 4. Use coordinates that make computations as simple as possible. Exercises For each figure, find x. 41 4-1 4-2 4-3 4-4 4-5 4-6 4-7 4-8 Classifying Triangles PROOF Write a paragraph proof of the following. All the lateral faces are congruent and all the lateral faces are congruent isosceles triangles. If AB = RS and RS = Inc. Exercises NAME DATE 9-4 PERIOD Study Guide and Intervention compositions of Transformations. Denville and Pineham 5. Determine whether the figure is a rectangle. \$ # # " Chapter 8 15 18 28 108 # 16 " 5. 1.25 in. A B b. -b Copy the vectors to find a a b Method 1: Use the parallelogram method. 5 8 m 6 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill companies, Inc. r: A number is a rational number. If so, classify the triangle as acute, obtuse, or right. ∠ A and ∠C are supplementary to ∠ B. Example n P Q m S R Refer to the figure at the right to identify each of the following. 1 A C D m \angle 1 > m \angle A, m \angle 1 > m \angle A completed Study homework, and class notes, the completed Study are permutation formulas: n! = n (n - 1) (n - 2) . 2. Along with your textbook, daily homework, and class notes, the completed Study Guide and Intervention Workbook can help you in reviewing for quizzes and tests. A B E Example 2 Use isometric dot paper and the orthographic drawing to sketch a solid. What is the probability that at any given time the second hand on a clock is between the 2- and the 3-hour numbers? The lateral area is about 527.5 square centimeters and the surface area is about 640.5 square centimeters. The false example is called a counterexample. Then n can be expressed as 2a + 1 by 5. Substituting pentagon is A = 5 - P for 5RS and substituting a for AP, then RP tan m $\angle RAP = -1$ aP. Since a horizontal and vertical line are perpendicular, the diagonals are perpendicular. The area of a circle is 153.9 square centimeters. Only convex polygons can be regular, so this is an irregular quadrilateral. RS = 6x, ST = 12, and RT = 72 8. Therefore, there is no relationship between AB # % \$ Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 2 -- C to AB. Name chords of the circle. center at origin, diameter 4 7. B c Find m 4 A. 1 Pl + BT = -21 (96)(13) + 576 = -2 = 1200 cm 2 1 V = - Bh 3 1 (576)(5) = -3 = 960 cm 3 6 ft 2 in. Example Determine whether the dilation from A to B is an enlargement or a reduction. Therefore, ABCD is a parallelogram by definition. Substitution 5. 28 yd 2. Example A Given: $m \angle C = 100 \text{ Prove}$: $\angle A$ is not a right angle. In the diagram below, $\angle B$ and three or more triangular faces that meet at a common vertex. Find the values of x and y. 5. AB + DE > AC - BC + CD - EC 5. The measures of the angles are 2(20) or 60, and 4(20) or 60, and 4 + 'x° 3 4. 12-gon 5. Exercises Find the distance between each pair of parallel lines with the given equations. Find m 4 D. Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Divide each side by 9. XY, YZ 11 cm A 5 cm B X D 5 cm 11 cm 3x + 5 C Y Chapter 1 4 5x - 1 9x 2 Z Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 90° 9 2 4 x + 6. Collinear points lie on the same line. 8 in. AB · BC = EB · BD 6 · x=8·3 Substitution 6x = 24 Multiply. The measures given are those of the leg opposite $\angle T$ and the hypotenuse, so write an equation using the sine ratio. Example 1 Use isometric dot paper to sketch a triangular prism 3 units high, with two sides of the base that are 3 units long and 4 units long. a 50° b b 3. 18 in. Example Tell whether the following postulate or property of plane Euclidean geometry has a corresponding statement in spherical geometry. RAT B 60° S 80° C RT > AC N S 36 M 33 P R T m 4 N > m 4 R Example 2 Compare the measures of ∠ABD and ∠CBD. top view Chapter 12 left view front view top view right view front view front view front view front view right view front view BD = BD 5., if MT = 7 yards 5.1 mDF m $\angle DEF = -21$ (90) or 45 = -2 Exercises Find each measure. The volume is about 213.3 cubic feet. 18 12 x+1 5 10 12 4. Here are some properties of central angles and arcs. Look for a pattern: Each number is a power of 3. two complementary angles Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 115° - ; 162° 6x . 8 11x° 12 3. You can use the Distance Formula to find the magnitude | of a vector. The answers to these worksheets are available at the end of each Chapter Resource Masters booklet as well as in your Teacher Wraparound Edition interleaf pages. Two lines are perpendicular if and only if the product of their slopes is -1.4430020010072409E(X) = 100 - +200 - +300 - = 148121121 The frequency table shows the result of the simulation after using a graphing calculator to generate 50 trials. Find the diameter of a circle with an area of 490.9 square millimeters. AD = AD 3. CD Chapter 8 109 Glencoe Geometry NAME DATE 8-7 PERIOD Study Guide and Intervention (continued) Vectors is called the resultant. a plane containing point D The plane can be named using three noncollinear points in the plane, such as plane ABD, plane ACD, and so on. x = 20 Divide each side by 9. 135° " 3, , , % 4 ' (# \$) Chapter 9 115 Glencoe Geometry NAME DATE 9-3 PERIOD Study Guide and Intervention (continued) Rotations Draw Rotations In The Coordinate Plane The following rules can be used to rotate a point 90°, 180°, or 270° counterclockwise about the origin in the coordinate plane. x 20 12 18 3. 8 ft 4. B J L A C 4. A B G P F H Q C E K D Hexagon ABCDEF is circumscribed about P. Helen is wearing pearls. (3 + 3. Chapter 5 67 Glencoe Geometry NAME 5-5 DATE PERIOD Study Guide and Intervention (continued) The Triangle Inequality Proofs Using The Triangle Inequality Theorem You can use the Triangle Inequality Theorem as a reason in proofs. FG = FM 2.8 = FM Exercises Find each measure. 7. = 10 Solve. It also can be used when additional information is known about an event. Example 2 POLITICS Mayor Hernandez conducted a random survey of 200 voters and found that 135 approve of the job she is doing. to 23. Classify a prove of the job she is doing. to 23. Classify a prove of the job she is doing. to 23. each triangle. Then find its measure. 5+x>8 8+x>5 5+8>x x>3 x > -3 13 > x Therefore x must be between 3 and 13. Exercises Find the area of each circle. Shirts: White, light blue 3. 45° 13 cm 4 in. Each parallelogram is made of two triangles with dimensions as shown. The probability that Jani can get 100 points in a roll is 25%, the probability of 200 points is 50%, of 300 points is 20%, and of 400 points is 5%. -- -- If AB RS, then AB and RS are equidistant from point O. Since ABC ~ XYZ, the measures of a pair of corresponding sides. Write a two-column proof. Lorenzo has 3 pictures on display. 149 12-2 Surface Areas of .. C = 256 ft 3. ALGEBRA In the figure QP bisects \angle PQT. Exercises COORDINATE GEOMETRY Graph each quadrilateral with the given vertices. 3 2x + 2 4 Chapter 4 5x - 4 3x 4y 3y + 2 5 " 44 3y \$ Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Subtr. Example If ABCD is a parallelogram, find the value of each variable. Example 1 Determine whether the triangles are similar. Take the positive square root of each variable. Example 1 Determine whether the triangles are similar. incline toward circular regions with different point values. & 6.3 x 2. opp sides in rectangle. The long marks are centimeters, and the shorter marks are millimeters. X 1. Copy a . The assumption that x is not greater than 1 must be false, which means that the statement "x > 1" must be true. and 8 in. y " # # 3. A m E P . - AC is an external secant segment. 161 12-8 Congruent and Similar Solids 131 Secants, Tangents, and Angle Measures D X C Y Z E F In ABC, the angle is not -- "included" by the sides AB -- and AC. All spheres are similar and all cubes are similar. If the diagonals of a parallelogram are congruent, then the parallelogram is a rectangle In an isosceles trapezoid both pairs of base angles are congruent and the diagonals are congruent. NAME DATE 9-1 PERIOD Study Guide and
Intervention Reflections. The distance between and m is $\sqrt{10}$ intersection for p and is (0, 1). Find 3. AB = CD % Definition of congruent segments 8x = 2x + 3x = 2 " Substitution 2x + 3 Simplify. A line contains exactly one point. DG 3. Example Write an expression or formula for the surface area and volume of each solid. If one diagonal of a parallelogram bisects a pair of opposite angles, then the parallelogram is a rhombus. 27 Proving Angle Relationships..... Example 1 In 2007 the Boston RedSox baseball team won 96 games out of 162 games played. If she selects 10 of them at random, what is the probability she chooses the ones from Ecuador, Paraguay, Chile, France, Spain, Sweden, Switzerland, Germany, Greece, and Italy? CD 9. Rover is happy. V = πr2h Volume of a cylinder 2 = π(4) (12) r = 4, h = 12 ≈ 603.2 Simplify. BP2 + PC2 = BC2 52 + 122 = BC2 169 = BC2 13 = BC NAME 7-1 DATE PERIOD Study Guide and Intervention Ratios and Proportions Write and Use Ratios A ratio is a comparison of two acute adjacent angles. To find the area of a composite figure, separate the figure into basic figures of which we can find the area. center at (-2, -6), diameter 8 6. A rectangle has all the properties of a parallelogram. 13 cm b. Addition Property of Equality If a = b, then a + c = b + c. If points on are the same plane, they are coplanar. Exercises Find x and y. C 5x - 6 2.8 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Find the length of each side of the triangle. Example . 25 15 65 x 5. <1 is suppl. If m < A > m < C, then BC > AB. Chapter 11 143 Glencoe Geometry NAME DATE 11-3 PERIOD Study Guide and Intervention (continued) Areas of Circles and Sectors Areas of Sectors A sector of a circle is a region bounded by a central angle and its intercepted arc. 2 5 x 7 x+2 7. ∠DBE and ∠CBD are complementary. 60° Chapter 12 153 15 in. • In a circle or in congruent if and only if they are equidistant from the center. 18, 24, 30 4. What is the ratio of the surface area of the small prism prism? State the conclusion. Example NAME 10-8 DATE PERIOD Study Guide and Intervention Equations of Circles Equation of a Circle is the locus of points in a plane equidistant from a given point. Using the Pythagorean Theorem, $a^2 = (2x)^2 - x^2 = 4x^2 - x^2 = 3x^2 = \sqrt{3x^2 - x^2} = x \sqrt{x} + 60^\circ$ / Example 2 In a to the surface area of the large 30°-60°-90° right triangle, the hypotenuse is 5 centimeters. 12.5 m ? Assume that Joni will have 90 at bats this season. ASA 5. 105 The Law of Sines and Cosines If he tries half of them this week, what is the probability that he will choose The Fish Shack, Carly's Place, Chez Henri, Casa de Jorge, and Grillarious? Example 1 Find the volume of the cylinder. Find the image under reflection in the x-axis, hemisphere: radius 5 in. are 5 - (-1) 1 - (-1) 6 = - = - slope of AB or 3 2 4 - 2 2 1 = - = - slope of AB or .. The centroid is located two thirds of the distance from a vertex to the midpoint of the side opposite the vertex on a median. L Chapter 6 81 J N K Glencoe Geometry NAME 6 -6 DATE PERIOD Study Guide and Intervention (continued) Trapezoids and Kites Properties of Kites A kite is a quadrilateral with exactly two pairs of consecutive congruent sides. If a dog eats Superdog Dog Food, he will be happy. = $\sqrt{16}$ 25 25 S Exercises Find x, y, and z to the nearest tenth. connect the points to draw ABC. The polygons are similar with a scale factor of – Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. If points A, B, and C are noncollinear, then segments AB, BC, and CA are contained in exactly one plane. 5 1 y = -x + -2333y = -x + -22233531 - = -x + -22233531 - = -2x + -2222222233 from each side. MR 5x + 8 = 8x - 1624 = 3x 8 = x Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a di - =- =- . Standard Equation of a Circle Example y r O An equation for a circle with center at (h, k) and a radius of r units is (x - h)2 + (y - k)2 = r 2. T 3 Q P E D a. x y 0 137 x Glencoe Geometry NAME DATE 10-8 PERIOD Study Guide and Intervention (continued) Equations of Circles Graph Circles If you are given an equation of a circle, you can find information to help you graph the circle. Equal numbers of hash marks indicate congruent sides. AB DB --- 2. two supplementary adjacent angles N 110° R T E 4. (x + 2)2 + y2 = 16 4. 63 Indirect Proof If \angle ABC and \angle DEF are supplementary, then \angle ABC and \angle DEF form a linear pair. The ratio of the measures of the three angles of a triangle is 7:9:20. If r is the radius of the sphere, then the area of a great circle of the sphere is mr2. 36 24 120° 115° D 50 Z C 38° C A X A 24 22° 42 Z 60 33° (3x - 3)° 24 30 69 60 Glencoe Geometry NAME 5-6 DATE PERIOD Study Guide and Intervention (continued) Inequalities Involving Two Triangles PROVE RELATIONSHIPS IN TWO TRIANGLES You can use the Hinge Theorem and its converse to prove relationships in two triangles. if a2 + b2 > c2 then ABC is acute. 12 21° 5 1 V Chapter 5 60 (28° # : Glencoe Geometry NAME 5-2 DATE PERIOD Study Guide and Intervention Medians and Altitudes of Triangles Medians A median is a line segment that connects a vertex of a triangle to the midpoint of the opposite side. KG LG Let IL = x and LG = 2 x. Identify the transformation and verify that it is a congruence transformation. TELEPHONE NUMBERS What is the probability that a 7-digit telephone number generated using the digits 2, 3, 2, 5, 2, 7, and 3 is the number 222-3357? ∠RPN R 6, f eo lin ht sig angle of elevation angle of depression horizontal line. 3m 10 in. 4 and 46 10. M(-1, 3), N(0, 5), R(2, 1), S(6, -1) 3. Given: - = 92 Prove: x = 3 Proof: Statements 4x + 62 4x + 6 b. Calculate EF by adding ED and DF. H G J P 2 S The right angles are congruent and they are the included angles for the congruent sides. V H G Chapter 10 9 6 R 6. NAME 13-1 DATE PERIOD Study Guide and Intervention Representing Sample Space of an experiment is the set of all possible outcomes. Exercises Find x. Also, any two of the three points on the line can be used to name it. ASA Postulate Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. RS = 4x, ST = 4x, and RT = 24 Determine whether each pair of segments is congruent. Substitution Simplify. C Construct the image of quadrilateral ABCD under a reflection in A D B m B' D' C' A' Draw a perpendicular from each vertex of the quadrilateral to m. b Example Find the geometric mean between each pair of numbers. Subtraction 6. 8x + 3 + 16x - 9 = 9024x - 6 = 9024Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. H B 12 ABCD is a rhombus, so the diagonals are perpendicular and ABE 32° 4 is a right triangle. Which sides are congruent? Others are not true or are true only under certain circumstances. Y B 3. First, find the scale factor. Volume is measured in units such as cubic feet, cubic yards, or cubic meters. A parallelogram has vertices R(-2, -1), S(2, 1), and T(0, -3). NAME 2-2 DATE PERIOD Study Guide and Intervention Logic Determine Truth Values A statement is any sentence that is either true or false. 6 and 9 1 4. RT 3. Similarly, if two planes do not intersect, they are parallel planes. Negation: not p is the negation of the statement p. 55° 5y° 4. m 9c The area is 31.5 square meters. The length of a rectangle is 8 inches and its width is 5 inches. If not, explain why not. Show that the lengths of the sides that include ∠A and ∠D are proportional to prove similarity by SAS. ∠15 6. 117 Symmetry..... .. a For vertex S, the x-coordinate is - . Here are some of the algebraic properties used in proofs. --- -- Given: NP = PM, NP + PL 1 Prove: NPL MPL NAME DATE 4-5 PERIOD Study Guide and Intervention Proving Triangles Congruent. L 3. Use the disjunction table for (g or r). The Protractor Postulate assigns numbers to angle measures, and the Angle Addition Postulate relates parts of an angle to the whole angle. The area of the sector is about 7.85 square inches. W E C D A 3. 50 0.8 0.7 0.1 19 16 15 Average value = 100 - + 200 - + 300 - = 192 50 0.9 Probability 121 NAME 13-5 DATE PERIOD Study Guide and Intervention
Probabilities of Independent and Dependent Events Independent Events Compound events, or two or more simple events happening together, can be independent. In G above, m DF = 90. 2 1 1 x-- y-3=- 2 2 5 1 y = -x + - 2 2 Point-slope form NAME 5-3 DATE PERIOD Study Guide and Intervention Inequalities in One Triangle Angle Inequalities, including the Transitive, Addition, and Subtraction Properties of Inequality, can be used with measures of angles and segments. if the radius is 2 meters 1. There is also a Comparison Property of Inequality, can be used with measures of angles and segments. Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Exercises Use the following statements to write a compound statement for each conjunction. M 1. MN : R(3, 4), S(0, 0) 5. BD CD In ABC, the altitude is the geometric mean between the two segments of the hypotenuse. 9 cm 18 in. If the plane cuts across the entire cone, then the resulting cross section will be an ellipse. - = -x-147. "- - - - Given: AB = CD, AB CD Prove: ACD CAB # \$%. Chapter 13 168 Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. \perp GH, then m $\angle 3 + m \angle 4 = 90$. Do planes GFE and HBC intersect? Let A be the event that an even number is drawn. Find v. 30, 40, 50 2, -- -- If SR and ST are tangent to P. -- -- then SR ST. V V 5. If DE \perp EF, then \angle DEF is a right angle. AB CB \rightarrow 40 $^{\circ}$ 40 X 5. Step 3 The probability that these 9 trophies are chosen is number of favorable outcomes 1 -- =-. ROLLER COASTERS An amusement park has 12 roller coasters. The circumference of a circle is the distance around the circle. 9, 40, 41 Chapter 8 100 Glencoe/McGraw-Hill Companies, Inc. (-3, 1) O x Exercises For each circle with the given equation, state the coordinates of the center and the measure of the radius. -- -- The tangent is BD, A 18 --- B and the external segment is BD, A 18 --- B and the external secant segment segment seca 3. Carlos pinned 80% of his opponents in wrestling matches last season. O is the midpoint of PR. 12 cm 3. octagon Chapter 6 72 Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. BC = EF 5. 150 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. BC = EF 5. 150 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. BC = EF 5. 150 Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. BC = EF 5. 150 Glencoe/McGraw-Hill Companies, Cylinders Lateral and Surface Areas of Prisms In a solid figure, faces that are not bases are lateral faces. The disjunction p v q is true, or if both are true, x 0 " Exercises are parallel, perpendicular, or neither. P 80° R B 78° Q 1 60° T x° S m 21 = m 2R + m 2S = 60 + 80 = 140 Exterior Angle Theorem Substitution Simplify. If m 2 $1 = m \neq 2$ and $m \neq 2 = m \neq 3$, then $m \neq 1 = m \neq 3$. If we try to make any other line on the sphere, it would intersect line m at exactly 2 points. A pair of adjacent angles with noncommon sides that are opposite rays is called a linear pair. and has all of the properties of a parallelogram. h = 12 Take the square root of each side. For a right cylinder, the axis is also the altitude of the cylinder, the axis is also the altitude of the cylinder. 42 12 x x 12 45 14 Chapter 7 91 Glencoe Geometry NAME DATE 7-5 PERIOD Study Guide and Intervention (continued) Parts of Similar Triangles Triangles Triangle Angle Bisector Theorem An angle bisector in a triangle separates the opposite side into two segments that are proportional to the lengths of the other two sides. 6 : ; F 9 ; 8 % " 3 ' 7 3 (M & Determine whether figure u on each of the spheres shown is a line in spherical geometry. 3 and 24 2 Chapter 8 4 97 Glencoe Geometry NAME DATE 8-1 PERIOD Study Guide and Intervention (continued) Geometric Mean Geometric Means in Right Triangles In the diagram, ABC ~ ADB ~ BDC. 3 Distance and Midpoints "p v q Join "p and q with the word or: A diameter of a circle is not twice the radius or a rectangle has four equal sides. A reflection maps a point to its image. BOOKS You have a textbook for each of the following subjects: Spanish, English, Chemistry, Geometry, History, and Psychology. Label points A, B, and C Draw OA so that OA = 2(OA), OB = 2(OB) and OC = 2(OC). r w P=a+b+c = 3+4+5 = 12 in. 3. What is the probability with targets, assume that the object lands within the target area and that it is equally likely that the object will land anywhere in the region. measures are less than $m \angle 4$ N 7 Q 1 9. 2(2a2 + 2a) + 1 is an odd number. The solid has a curved surface, so it is not a polyhedron. 8 8 y 9 4; Multiply the x-coordinate by -1 and then interchange the x- and ycoordinates. y x z 1 8 z 5. 3, 4, 6 2. D 1. What is another name for line ? If RT is a, then another vertex is T(a, 0). The geometric mean between 12 and 3 is 6. Each point of the image and its corresponding point on the preimage must be the same distance from the line of reflection. 4x = e. m $\angle XYW$ and m/WYZ 40 Chapter 5 X 24 Y 28 30 Y W B Write an inequality for the range of values of x. 21 Postulates and Paragraph Proofs center at (3, -4), passes through (-1, -4) 8. If a cone has a volume of V cubic units, a height of h units, 1 2 and the bases have a radius of r units, then V = $-\pi r$ h. BOTANY Bryon is measuring plants in a field for a science project. The first part of the compound statement, p, is true, so the compound statement is true. Then the following equations are true. Exercises - 2. (2y - 5)° % 75° 40° 96.6 \$ ' Glencoe Geometry NAME 4-3 DATE PERIOD Study Guide and Intervention (continued) Congruent Triangles Prove Triangles Congruent Two triangles are congruent if and only if their corresponding parts are congruent, A(-3, 0), B(-2, 2), C(3, 0), D(2 - 2); Distance Formula 4, 12 12! 12! P2 = - = - = 12 11 = 132 (12 - 2)! 10! Find the number of favorable outcomes, DE NAME DATE 10-3 PERIOD Study Guide and Intervention Arcs and Chords Arcs and Chords Points on a circle determine both chords and arcs. For each hour, the cost First plan increases \$45. 2! = 2 The probability of Chantel and Cadence being chosen is Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of units, and diagonals of d1 and d2 units, then 1 A=- d1 · d2. This is a translation. If n is the measure of each exterior angle, then 6n = 360 n = 60 The measure of each exterior angle of a regular hexagon is 60. Example In the figure, ABC ~ XYZ, with angle bisectors as shown. Exercises State the assumption you would make to start an indirect proof of each statement. V altitude axis slant height base oblique cone Lateral Area of a Cone The lateral area L of a right circular cone is L = πr, where r is the radius and is the slant height. A(-2, 1), B(-1, 3), C(3, 1), D(2, -1) 3. Example 1 M R N cm 1 2 3 - - Find the length of RS. 1.6 cm 16 ft 8 ft 4. Find the volume example 2 Find the volume of the prism if the area of each base is 6.3 square feet. JL x 1 - = - = - 2 2 2x 10 LG 1 1 = -, the sides are proportional and Since - 2 - - - - 2 5 HK 1 - = - = - KG HJ KL. 1 Step 4 Repeat steps 1-3 for vertices M, N, -' and O and draw square L' M' N' O'. Eastwich Denville Pineham Needham Beach Method 2: Write and solve an equation. MOVIE RENTALS A local video store has 5 videos in its fairytale section. 82 m and 8 m 11. • If one of the angles of a triangle is an obtuse triangle is an obtuse triangle is an obtuse triangle. The center is at (-3, 1) and the radius is 3. 2y 60° 4x 4y° 2x° 12 3x° 2y 6. -5, 10, -20, 40 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. OE = 9 Take the positive square root of each side. Find each measure below. If AD = 2x + 4 and CD = 4x - 4, find x, Third Angles Theorem 6, WX W Z C X Y ALGEBRA Find the value of x and RS if S is between R and T, # 116° - & 64° 5, 4 1 2x + (x + 2)° 9x 24 5 8 - 7 6 3x 7 8 198° : Chapter 10 127 Glencoe Geometry NAME DATE PERIOD 10-3 Study Guide and Intervention
(continued) Arcs and Chords Diameters and Chords W A B X • In a circle, if a diameter (or radius) is perpendicular to a chord, then it bisects the chord and its arc. two acute vertical angles 3. 12. • If all three sides of a triangle are congruent, then the triangle is an equilateral triangle. z y 2 2 x 98 x z y 2 6 Glencoe Geometry NAME DATE 8-2 PERIOD Study Guide and Intervention The Pythagorean Theorem and Its Converse The Pythagorean Theorem In a right triangle, the sum of the length of a the hypotenuse. --- 2. DEF by SAS similarity. Exercises For Exercises 1-7, refer to A 1. PQ = QR --- 3. Area of a Circle Example The area of a circle is equal to π times the square of radius. 11 ft m 11 in. x=4 3 A 6 x C B 8 E AB · BC = EB · BD Divide each side by 6. 150 8. If two angles are complementary, then the sum of their measures is 90. The radius of the circle is one half of 30 or 15. 9 3 DF BC 8 2 -=-=- 3 12 EF 10 AB 2 -=-=- 15 3 DE 4 8 QR RS m $\leq N = 10 \text{ AB} + 10 \text{$ m/R, so /N /R. Express each ratio as a fraction and as a decimal to the nearest hundredth. 2 The coordinates of the orthocenter of ABC is (6, 7). Use the Pythagorean Theorem to find the height of the cylinder. NAME 5-5 DATE PERIOD Study Guide and Intervention The Triangle Inequality If you take three straws of lengths 8 inches, 5 inches, and 1 inch and try to make a triangle with them, you will find that it is not possible. EU 12. Is HK KL? AC = DF ----8. 1 y=-(2) + 1 = -(2) + 1corresponding sides for each pair of similar polygons. Example MAPS The scale on the map shown is 0.75 inches : 6 miles. 2 (OE) = 81 Subtract 144 from each side by 40. 173 13-6

-f. If $m \angle PQS = 3x + 13$ and $m \angle SQT = 6x - 2$, find $m \angle PQT$. Given: If Helen is going to work, then she is wearing pearls. Given: If a pet is a rabbit, then it eats carrots. 106 \$ 60° y # n oo ll Ba " % 6 ft Chapter 8 Steep cliff x x 25° 10 ft 36° \$ y # Glencoe Geometry Copyright Probabilities of Mutually Exclusive Events. Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. " " #' \$ u # \$' \$ Exercises Use the figure and the given translation vector. m 4 U 6. Number of Choices Paint color 8 Main dish 3 Comforter set 6 Side dish 4 Sheet set 8 Vegetable 2 Throw rug 5 Salad 2 Lamp 3 Salad Dressing 3 Wall hanging 5 Dessert 2 Drink 3 3. Example 2 The measure of an interior angle of a regular polygon is 120. -' 0 110°. mLN 6. EU & % # 12 6 16 ' 3. x = 1 \$ % Graph each figure and its image under the given reflection. IU A 36 38.6 23 30 S 60 B x D C 5. is in plane Q. Find the coordinates of the orthocenter of ABC. Let S represent selecting a poster of the shortstop. Exercises Determine the probability of each event. $\angle 2$ $\angle 3$ - - - - 3. PQRS ~ TUWX 4 9 6 2 5 1 Determine whether each pair of figures is similar. # x+3 J 20 15 \$ x H " K 7 % 3. Assume segments that appear to be tangent are tangent. 3). Exercises Find the magnitude and direction of each vector. $\angle CBD \angle ADB 3$. XW 2. y " 2. By the Triangle Inequality Theorem, all three of the following inequalities must be true. measures are greater than $m \angle 3$ 3. PKL TKM 7. 3 2; --2., 3 RS -- Example Point X is chosen at random on AD. The altitude is the segment from the vertex that is perpendicular to the base. For triangles, we say, "Corresponding parts of congruent triangles are congruent," or CPCTC. T (4y - 5)° (2y + 5)° R P W V S Chapter 1 10 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Name the line of intersection of planes GAB and FEH. 153 12-4 Volumes of Prisms and Cylinders In Q, CD CB, GQ = x + 5 and EQ = 3x - 6. If RY = 10 inches, find AR and AB PQ + QR = PR, QR + RS = QS 8. S B 1 2 3 T in. E b. The area of JKL is 40 square inches. Find x and y so that FGHJ is a F 6x + 3 G 4x - 2y parallelogram. Transitive Property of Equality If a = b and b = c, then a = c. It allows you to draw conclusions from two true statements when the conclusion of one statement is the hypothesis of another. L(1, -2) N(-6, 3) 4. Transitive Property 7. Define a trial for the situation and state the number of trials to be conducted. E B 58° 74° 30 45° C D A b sin C sin B - c = - Cross Products Property Law of Sines d = 28, m $\angle E = 58$, e = 24 24 sin D = 28 sin 58° 30 sin 74° b = - Divide each side by sin 45°. Law of Detachment If $p \rightarrow q$ is true, then q is true, then q is true $A = -AP \ 6 \ tan \ 36 = -AP \ 6 \ AP = -tan \ 36 \ 2 \ Copyright$ © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Since PN $2x + 14 = x + 34 = 40 + 14 \ x + 14 = 34 \ x + 14 = 34 \ x + 14 \ x + 14 = 34 \ x + 14 \ x + 14 = 34 \ x + 14 \ x + 14$ 25(5.5) + 125 = 137.5 + 125 or \$262.50 Donna would earn more with the first plan. $\sqrt{12}$ y $\sqrt{3}$ 1 Chapter 8 3. Then write a congruence statement. NAME DATE 8-4 PERIOD Study Guide and Intervention Trigonometric ratio. Q is between 1. If BE = 6y + 2 and CE = 4y + 6, find y. % 4 82° 3. Name the vertex of 44. octagon 5. X(-3, -1), Y(-3, 3), Z(4, -1), P(4, 2) y y 0 Chapter 1 x 0 12 x Glencoe/McGraw-Hill Companies, Inc. S to QR R 6. Name the three line segments that intersect at point A. Example The pattern for a certain license plate is 3 letters followed by 3 numbers. 61 Inequalities in One Triangle B E Prove: 2 ABC 2DBE Statements Reasons 1. --- RO bisects 2 MRH and 25 5. 20-gon 7. Example Determine whether each conclusion is valid based on the given information. -- -- -- 6. The volume of the cone is the segment with endpoints at the vertex and the center of the base. If you know the length of the radius of a sphere, you can calculate its volume. t "* 5. The volume of the cone is about 314.2 cubic centimeters. Then find the scale factor of the dilation. This contradicts the given information, so the assumption must be 8. \angle EBC Using a protractor, m \angle EBC = 90. B Reasons --- -- ABC is equilateral; PQ BC. AC DF 7. CE --- 2. y WXY with vertices R(2, 0), S(5, 0), and T(5, 5). Any two lines ℓ and m intersect. B P D C If ABCD is a parallelogram, then If a quadrilateral is a parallelogram, then its diagonals bisect each other. Chapter 12 163 1m 1m 3m Glencoe Geometry NAME DATE 12-8 PERIOD Study Guide and Intervention (continued) Congruent or Similar Solids Properties of Congruent or Similar Solids Properties are known. 0. If US = 6x + 3 and RT = 7x - 2, find x. 211 4. Use a ruler. ABC ~ DEF by SSS Similarity. 59 Medians and Altitudes of Triangles Chapter 13 173 Glencoe Geometry NAME DATE 13-5 PERIOD Study Guide and Intervention (continued) Probabilities of Independent and Dependent and Dependent and Dependent and Dependent and Dependent Study Guide and Intervention (continued) Probabilities of Independent and Dependent and Dependent Study Guide and Intervention (continued) Probabilities of Independent Study Stud probability of dependent events. Drawing all of the diagonals from one vertex of an n-gon separates the polygon into n - 2 triangle. B C A E F D Reasons 1. Then find each measures can be the measures of the sides of a triangle. B C A E F D Reasons 1. Then find each measures can be the measures can be the measures of the sides of a triangle. B C A E F D Reasons 1. Then find each measures can be the measures can be the measures can be the measures can be the measures of the sides of a triangle. B C A E F D Reasons 1. Then find each measures can be the measures c . Two lines intersect in two distinct points M and N. COORDINATE GEOMETRY Graph each pair of triangles with the given vertices. 48.6 yd 8 yd 15 in. GAME rolling a 6 or an even number on a die while playing a game 3. Subtraction Property g. When a solid is not a right solid, use Cavalieri's Priniciple to find the volume. The diagonals of a kite are perpendicular. Definition of midpoint 3. Find the measures of the remaining angles. y V B(5, 3) x O A(0, 0) y Example for Find the measures of the remaining angles. y V B(5, 2) and B(8, 7). AB + BC = AC, DE + EF = DF NAME DATE 2-8 PERIOD Study Guide and Intervention Proving Angle Relationships Supplementary and Complementary Angles There are two basic postulates for working with angles. 18 ft 24 ft 24 ft 10 ft 5. Name the intersection of BC D E Refer to the figure. $(7x + 5)^{\circ}(3x + 21)^{\circ} + \& 5 2x + 1 3x - 8 - ,)$ Point U is the incenter of GHY. Therefore, EF is 3.1 centimeters long. 6 cm 9. Find the measures of the angles. 3 x Chapter 7 y+2 8 2y + 2 4 y 5 3y 6 All of the sides are congruent, so it is equilateral. If two similar solids have a scale factor of a:b then, • the ratio of their surface areas is a2:b2. 5 ft 9 cm 3. Definition of congruence of segments Exercises Justify each statement with a property of congruence. Use ABC. Lateral area of a right cone r = 6, l = 10 Simplify. R 40° P # 4. If AB = 18 millimeters, find AR. 30x 2y ° Chapter 6 3y° 150 72x 73 Glencoe Geometry NAME DATE 6 -2 Study Guide and Intervention PERIOD (continued) Parallelograms A Diagonals. A central angle separates a circle into two arcs, a major arc and a minor arc. If so, draw all lines of symmetry and state their number. A larger and similar laptop has a width of 15 in. y = 8 y = -3 Chapter 3 2. RX = XS 9. 12.3 in. ∠DBE and ∠CBD form a right angle. Chapter 4 58 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. The area of a circle is 907.9 square inches. So this is a regular pentagon. RS ST Prove: RSTU is a rhombus. SSS Similarity The measures of the corresponding side lengths of two triangles are proportional. 3 5 1 = - . Thus SU lies on (2 2) -- the y-axis, and RST was placed so RT lies on the x-axis. The probability that the arrangement is boy-girl-the was placed so RT lies on the x-axis. Glencoe Geometry NAME 2-8 DATE Study Guide and Intervention PERIOD (continued) Proving Angle Relationships Congruence, and Transitive Property of Congruence, and Transitive Property of Congruence, and Transitive Property of Congruence, Symmetric Property of Congruence, and Transitive Property of Congruence, Symmetric Property of Congruence, Symmet DEC Prove: AB + DE > AD - BE & "Proof: Statements 1. E A segment or line can intersect a circle in several ways. 2.5 cm 3 cm 4 ft 2 cm 3.5 cm 3. Berta is a Plymouth Rock hen. Exercises Find the diameter and radius of a circle with the given circumference. CLUBS The Service Club is choosing members at random to attend one of four conferences in LA, Atlanta, Chicago, and New York. AB intersects AB at P. The image is D' E' F' G'. rectangle AFBC, ED = DC 2. " 15°, 88° 36° 10 m ' + -7. " Example Write a two column proof. $m \angle RXT = 83$ 6. P Determine whether PQR is a right triangle. 2 \$ " # --- 8.14. If $m \angle 1 + m \angle 2 = 110$ and $m \angle 2 = m \angle 3$, then $m \angle 1 + m \angle 3 = 110$. If two lines are perpendicular, then they form a right angle. mQSR 2. -- -- AC AC by the Reflexive Property of congruence. - 2 - a. 4x + 6 1. Find the lengths of the triangle. For example, the speed and direction of an airplane can be represented by a vector. Exercises Find the area of each regular polygon. 10 cm 6 cm 45° 16 cm 158 Glencoe Geometry NAME DATE 12-6 PERIOD Study Guide and Intervention Surface Areas of Spheres Sur similar triangles. # + , 45° & " \$ 5. 34 ft 14 ft 40 in. C(?, q) A(0, 0) B(2p, 0) x y y 3. Complete the indirect proof. \approx 81.68 Use a calculator. Write an equation in slope-intercept form that models the total monthly cost for each satellite service, where p is the number of premium channels. Find x so that DZ \perp ZP, then m \angle DZP = 90. In a catalog of outdoor patio plans, there are 4 types of stone, 3 types of stone, hypotenuse MN is two times the length of the shorter side NQ. 6 1.5 Using x for the height of the pole, - = -, x 7 so 1.5x = 42 and x = 28. Carl plans to order one item from each category. For example, Statement p: Chicago is a city in Illinois. Find the perimeter of ABC. , - - - - Given: PL MT - - K is the midpoint of PT. 22 cm 40 cm 42 cm 64 m 5 congruent sides. a line containing point A The line can be named as . If Cynthia is bringing a dessert, what is the probability that she drew the number 10? Theorem c. Exercises Find the volume of each cylinder. Chapter 9 5. The lateral area is 240 square centimeters, and the surface area is 240 square centimeters, and the surface area is 240 square centimeters. M is On PQ between points P and Q means P, Q, and M are collinear and PM + MQ = PQ. 90° 1 P 2 M 2. Determine the slope of the line that contains the given points. What are the perimeters and the surface area is about 301.4 square centimeters. V W 1 6 + 3 (3x)° 7. 1 2 πr h V=- 3 1 =- π(5)212 3 h 5 cm Volume of a cone 12 cm r = 5, h = 12 ≈ 314.2 Simplify. There are important relationships involving tangents. 8 3 6 x+2 2 9 x Chapter 10 4 132 Glencoe Geometry NAME DATE 10-6 PERIOD Study Guide and Intervention Secants, Tangents, and Angle Measures Intersections On or Inside a Circle A line that intersects a circle in exactly two points is called a secant. A third satellite company charges a flat rate of \$69 for all channels, including the premium channels, including the premiu same height. m 2 5 6. 32 16 x+4 y 90 y+3 Glencoe Geometry NAME DATE 7-5 PERIOD Study Guide and Intervention Parts of Similar Triangles Special Segments of Similar Triangles Special Segments of Similar Triangles are similar, corresponding altitudes, angle bisectors, and medians are proportional to the corresponding sides. 212 9. 23 and 29 alternate interior angles Exercises Use the figure in the Example for Exercises 1-12. What is the probability that, 1 when the engine is turned on, the needle on the gas gauge is pointing between – and 4 1 – full? Example Find a counterexample to show the conjecture is false. A C D Find x, y, and z. There are 20 members in the club. (p and r) or q 18 Glencoe Geometry NAME DATE 2-3 PERIOD Study Guide and Intervention Conditional Statements If-then statement is a statement such as "If you are reading this page, then you are studying math." A statement that can be written in if-then statement such as "If you are reading this page, then you are reading this page, then you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are reading this page, then you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are reading this page, then you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are reading this page, then you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math." A statement such as "If you are studying math. semicircle of the circle. Exercises Find the area of each rhombus or kite. Example O C E D 5 4 Exercises In P, the radius is 13 and RS = 24. (OE) + 12 = 15 Substitution 2 (OE) + 12 Substitution 2 (OE) + 12 Substitution 2 (OE) + 12 Substitution 2 has no pair of congruent sides. Except as permitted under the United States Copyright Act, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without prior written permission of the publisher. UD \$ 2. A square is both a rectangle and a rhombus; therefore, all properties of parallelograms, rectangles, and rhombi apply to squares. Find the indicated measure. suppl. 2 2 2 + 1.5 = $\sqrt{6.25}$ = 2.5 LM = $\sqrt{40.25}$ = 2.5 LM = $\sqrt{40.25}$ = 2.5 LM = $\sqrt{6.25}$ = 2.5 A 2.5 DF DE 2 2 AC AB NP = $\sqrt{2 + 1.5}$ = $\sqrt{6.25}$ = 2.5 LM = $\sqrt{40.25}$ = 2.5 LM = \sqrt Intervention (continued) Angles and Parallel Lines Algebra and Angle Measures Algebra can be used to find unknown values in angles formed by a transversal and parallel lines. y S(0, c) First, position and label an isosceles triangle on the coordinate plane. If AV is not congruent to VE, then AVE is not isosceles. A convex polygon that is both equilateral (or has all sides congruent) and equiangular (or all angles congruent) is called a regular polygon. V(-2, 10), W(-4, -3) Find the slope of each line. If $\angle X \ \angle R$ and $\angle R \ \angle S$, then $\angle X \ \angle S$. She has 20 dolls, each from a different country. Algebraic Steps Properties $6x + 2(x - 1) \ 6x + 2x - 2 \ 8x - 2 \ 4x - 2 \ 8x - 8 \ x$ Original equation or Given 30 = 30 = 30 = 30 = 30 + 2 = 32 32 = - 8 = 4 Distributive Property of Equality Substitution Property Substitution Pr Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. (n - 2) 180 = 11 180 = 1980 The number of sides is n, so the sum of the measures of the interior angles is 120n. The angle at the right can be named as $\angle A$, $\angle BAC$, $\angle CAB$, or $\angle 1$. $\angle 3$ and $\angle 11$ 8. Then 3d = 40 and d = 13 - ... r = -6. BG ---7. RM 1 - mGK) - (mGK is not expected by the interior angles is 120n. The angle at the right can be named as $\angle A$, $\angle BAC$, $\angle CAB$, or $\angle 1$. $\angle 3$ and $\angle 11$ 8. Then 3d = 40 and d = 13 - ... r = -6. BG --7. RM 1 - mGK is not expected by the interior angles is 120n. The angle at the right can be named as $\angle A$, $\angle BAC$, $\angle CAB$, or $\angle 1$. $\angle 3$ and $\angle 11$ 8. Then 3d = 40 and d = 13 - ... r = -6. BG --7. RM 1 - mGK is not expected by the interior angles is 120n. The angle at the right can be named as $\angle A$, $\angle A$. $2 \text{ m} \angle R$) - mMNC = -12 (mMTN Find m $\angle MPN$. We can say that the segments are On AC -- -- congruent segments, or AB BC. 3 b. L = $2\pi (6)(14) \text{ r} = 6$, h = 14 12 cm ≈ 527.5 Use a calculator. Round angle measures to the nearest tenth. -- - - - 3.0 3 = - = 3 slope of BC slope for AB y Since the product of their slopes is not -1, the two lines are not perpendicular. 3 a 13 10 42 15 5. The total surface area of the sphere is four times the area of a great circle. PSR RQP by the SAS Postulate. E D 4. Example Write a two-column proof to verify this conjecture. Compare theoretical and experimental probabilities or expected and average values depending on the type of simulation you run. -- -- -- AB, BC, CD, DE, EF, and FA are tangent to P. Example Find the surface area of a sphere to the nearest tenth if the radius of the sphere is 6 centimeters. 137 11-1 Areas of Parallelograms and Triangles The right angle symbol indicates that is perpendicular the lines are perpendicular. 80° V 1 60° 3 2 35° U P D 36° T Find each measure. 29 4 opp 29 sin T = -3434 hyp 29 29 If sin T = -3434 hyp 29 If si is circumscribed about O, so points D, E, and F are points of tangency. Then graph the equation. 13 cm Circumference formula C = $2\pi r = 2\pi(13)$ r = $13 = 26\pi$ Simplify. If $m \ne 3 = 4x + 10$ and $m \ne 4 = 5x$, find $m \ne 4 = 5x$. 2 + 2w = 2(3) + 2(2) = 10 ft A = lw = (3)(2) = 6 ft 2 2 1 (4)(3) = -2 = 6 in 2 Exercises 1. Theorem 2.13 If two congruent angles form a linear pair, then they are right angles. Using the Law of Syllogism, a valid conclusion is p \rightarrow r. 5 B 3.8 60° 5 11 3. 1. RS RS If XY = -. x 3x + 5 1 8 0 5 - 1 2 - 2 - 1 - 3 - 4 Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Find the point where two of the three altitudes intersect. Exercises NAME DATE 6 -2 PERIOD Study Guide and Intervention Parallelograms A quadrilateral with both pairs of opposite sides parallelograms. N R 1 M 2 P is the angle bisector of ∠NMP, so m∠1 = m∠2. C) 18 A x + 22 F x+2 + B , - -- -- AF AE . 91 Similarity Transformations P R Q S Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Exercises NAME DATE 12-1 PERIOD Study Guide and Intervention Representations of Three-Dimensional Figures Draw Isometric Views Isometric dot paper can be used to draw isometric views, or corner views, of a three-dimensional object on two-dimensional paper. The following are the Multiplication Rules for Probability. Use the Distance Formula to find the distance between (0, 1) and (2, 0). If a quadrilateral is inscribed in a circle, then its opposite angles are supplementary. 24 sin 58° – Use the inverse sine. MY -- 4. Exercises Find the volume of each sphere or hemisphere. NAME DATE 13-2 PERIOD Study Guide and Intervention Probability with Permutations A permutations and Combinations Probability Using Permutations A permutation is an arrangement of objects where order is important. The sample space is the result of three stages: Maurice's Packing List 1. The measures of angles formed by secants and tangents are related to intercepted arcs. $T = Ph + 2B = (14)(6) + 2\pi(2)2 = 32\pi$ or about 100.5 ft2 V = $\pi r^2h = \pi(2)2(6) = 24\pi$ or about 100.5 ft2 V = \pi r^2h = \pi(2)2(6) = 24\pi or about 100.5 ft2 V = \pi r^2h = \pi(2)2(6) = 24\pi or about 100.5 ft2 V = \pi r^2h = \pi(2)2(6) = 24\pi or about 100.5 ft2 V = \pi r^2h = \pi(2)2(6) = 24\pi 75.4 ft3 Exercises 1. Planes R and S intersect in point T. 30 8 8 6. For inscribed quadrilateral ABCD, m 4 + m 2 = 180 and m 4BC + m 4C = 180 and m 4BC + m These angles are complementary. If a sector of a circle has an area of A square units, a central angle measuring x°, and a radius of r units, x then A = - nr2. Volume of a Cone Example r 3 Find the volume of the cone. You now have five ways to show that two triangles are congruent. 151 12-3 Surface Areas of ∠ ABC and ∠CBD are complementary. 3 cm 8 cm 3 cm 6 cm 5., 3x° 4x° 2x° + Exercises 1. ∠BDA ∠BDC 6. A B y -y 2 1 Method 1: Use the Slope Formula, m = - x2 - x1. SKIING A ski run is 1000 yards long with a vertical drop of 208 yards. 6 2 Exercises Determine whether the dilation from A to B Pyramids and Cones is an enlargement or a reduction. Based on the survey, about 32,400 registered voters approve of the job the mayor is doing. 5m 5m 8 in. x 20 9 15 28 3. 171 Probabilities of Independent and Dependent Events hemisphere: area of great circle ≈ 4π ft2 Chapter 12 159 Glencoe Geometry NAME DATE 12-6 PERIOD Study Guide and Intervention (continued) Surface Areas and Volumes of Spheres A sphere has one basic measurement, the length of its radius. Find the probability that the number spun is 6 given that it is an even number. 35-gon The measure of an interior angle of a regular polygon is given. w - z d c z w 3. Start at the vertex and move in the # same direction as the vector. Example 2 Write a conjecture about the number of small squares in the next figure. It has two congruent circular bases, so it is a cylinder. BD 2. Write each statement in if-then form. 165 11. form a linear pair. 4 32 5 Chapter 8 3 6., (5x + 5)° Angle Sum Theorem - (3x + 5)°. The axes are perpendicular, so --- - SU 1 RT. Write the scale as -, Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. How many license plates can be created with this pattern? AB \perp BC b. The height of a parallelogram is the perpendicular distance between any two parallel bases. S R O T V --- RS TV if and only if RS TV. Find vertices A', B', C', and D' that are the same distance from m on the other side of m. m = -, (3, -1) 2 9. 4x + 8 - x = x + 2 - x c. A conditional statement always have the same truth value as its contrapositive, and the converse and inverse always have the same truth value as its contrapositive. equal, so the triangular prisms are similar. 5 HJ 5 GH - = - = 2, - = - = 2, NAME 7-7 DATE PERIOD Study Guide and Intervention Scale Drawing with lengths proportional to the object it represents. 3.3 2. 18 36 x + 15 24 18 40 30 20 5. The two chords intersect inside the circle, so x is equal to one half the sum of the measures of the arcs intercepted by the angle and its vertical angle. Exercises Find the surface area of each sphere to the right, if we are given line m we see that it goes through the poles of the sphere. The Boston RedSox won about 59% of their games in 162 2007. (5x - 5)° m (3x + 15)° $6x^\circ 5$. $32 \times 38 \cdot 32 - - = -y = -16 \cdot 13 \cdot 16 \cdot 16x = 32(13) \times x = 26$) The scale factor of DEF to GHJ and the perimeter of each triangle. When graphed, the two lines intersect but not at a right angle. He then steps back 20 feet and sites the top at a 10° angle. $m \angle L + m \angle M + m \angle K = 180 (3x + 5) + (5x + 5) = 180 11x + 15 = 180 11x + 15$ Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. (2) If a number is an integer, then it is a rational number. Name a point not on line or line m. Last year 45% of their sales was straight leg jeans, 30% was boot cut jeans 15% was low rise jeans, and 10% was easy fit. model length 15 in. Div. 28 ft A = 296 ft 2 A = 54 in 2 A = 216 A = 169 ft 2 in 2 3. If $m \angle 1 = m \angle 2$, then $m \angle 2 = m \angle 1$. --- Is it possible to draw a diagram with AB BC such that B is not the midpoint? C A 3 cm 3 cm B Exercises Determine whether each conjecture is true or false. NAME DATE 3-5 PERIOD Study Guide and Intervention Proving Lines Parallel Identify Parallel Lines If two lines in a plane are cut by a transversal and certain conditions are met, then the lines must be parallel. Theorem 2.10 All right angles are congruent. ∠ABE 2. Since - = - = - LM MN NP PL Exercises Graph the original figure and its dilated image. How many times as tall as the actual house is the model? NAME DATE 4-8 PERIOD Study Guide and Intervention Triangles and Coordinate Proof Position and Label Triangles and Coordinate Proof Position and Label Triangles and Coordinate Proof Position and Label Triangles A coordinate Proof Position and Label Triangles and Coordinate Proof Position and Label Triangles A coordinate Proof Position and Label Triangles A coordinate Proof Position and Label Triangles and Coordinate Proof Position and Label Triangles A coordinate Proof Position A coordinate Proof Posit center of rotation, then the image and preimage are the same point. Then find the perimeter. y O m To find the point of intersection of p and m, solve a system of equations. • If no two sides of a triangle are congruent, then the triangle is a scalene triangle is a scalene triangle is a scalene triangle is a scalene triangle are congruent, then the triangle is a scalene t of a Parallelogram Example A If a parallelogram has an area of A square units, a base of b units, then A = bh. Identify the postulate or theorem you used. Example Determine whether parallelogram ABCD with vertices A(-3, -3), B(1, 1), C(5, -3), D(1, -7) is a rhombus, a rectangle, or a square. "y image: L(-2, 1.5), M(0, 3), N(2, 1.5), D(1, -3), B(1, 1), C(5, -3), B(1, 1), C(5, -3), B(1, 1), C(5, -3), B(1, 1), C(5, -3), D(1, -7) is a rhombus, a rectangle, or a square. "y image: L(-2, 1.5), M(0, 3), N(2, 1.5), D(1, -3), B(1, 1), C(5, -3), D(1, -7) is a rhombus, a rectangle, or a square. "y image: L(-2, 1.5), M(0, 3), N(2, 1.5), D(1, -3), B(1, -1.5), P(0, 0) Use the distance formula to find the length of each side. Two lines and a transversal form eight angles. C = 79.5 yd 6. • A line is tangent to a cylinder r h If a cylinder has a volume of V cubic units, a height of h units, and the bases have a radius of r units then $V = \pi r 2h$. This contradicts the given that n2 is even, so the assumption must be 10. SUN Find the angle of elevation of the Sun when a 12.5-meter-tall telephone pole casts an 18-meter-long shadow. L = $\pi r \ell = \pi(6)(10) \approx 188.4$ NAME DATE 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms and Cylinders Volumes of Prisms and Cylinders Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Intervention Volumes of Prisms Theorem 12-4 PERIOD Study Guide and Prisms T measure of the amount of space that a three-dimensional figure encloses is the volume of the figure. Use the Pythagorean Theorem If the noncommon sides of two adjacent angles form a right angle, then the angles are complementary angles. If Jerri wants to add a fourth premium channel, which service would be least expensive? parallelogram ABCD with vertices A(1, 6), B(4, 5), C(1, -1), and D(-2, 0); (3, -2) 8 y 4 -8 -4 0 4 8x -4 -8 Chapter 9 114 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. - 1 and XY = - RS RS. Let $m \neq 1 = m \neq 2$. Find the angle of depression from the top of the ski run to the bottom. A die is rolled. 1 2 ratio of hypotenuse: -41 ratio of height: -=-41 rat 11. 15 m 9 cm 4. $3 \sqrt{2} 45^\circ$ 5. PQ + QR = PR 2. CHARITY Emily is giving away part of her international doll collection to charity. -- Given: $\angle S \angle U$; TR bisects $\angle STU$. Substitution Property of Equality If a = b, then a may be replaced by b in any equation or expression. Translation: along $\langle 1, 2 \rangle$ Reflection: in y-axis 0 \$ "'' #' 2. If m $\angle 3 = 6y + 2$ and m $\angle 4 = 0$. 8y - 14, find m ∠CBE. A line contains at least two points. What is another name for line m? 2, $\sqrt{8}$, $\sqrt{129}$. $\angle 2$ and $\angle 87$. Represent the sample space for each experiment by making an organized list, a table, and a tree diagram. For any real numbers a and b, either a < b, a = b, or a > b. quadrilateral TUVW with vertices T(-3, -8), U(-6, 3), V(3, 0), and W(0, 3); (4, 5) 4 -8 -4 0 4 8x -4 -8 2. In the proportion - b d b d not zero, the values a and d are the extremes and the values b and c a d=b c are the means, -- -- -- -- -- -- Given: AB CB, AD CD, ∠BAD ∠BCD --- BD bisects ∠ABC Prove: ABD CBD Proof: Statement -- --- 1. Surface Area of a Cone The surface area S of a right cone is $S = \pi r + \pi r^2$, where r is the radius and is the slant height. WXYZ ~ PQRS. Post. Exercises -- Point M is chosen at random on ZP. = 42. % 12 + '12 Perimeter of GHJ 30 2 - = - x 3 Substitution (3)(30) = 2x Cross Products Property 45 = x Solve. COMPUTERS A small rectangular laptop has a width of 10 in. Some theorems deal with perpendicular bisectors. 144 12. 410 and 416 Chapter 3 32 Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Look for a pattern: The sides of the squares have measures 1, 2, and 3 units. 6 Let the random variable X represent the point value assigned to a region on the game. If no valid conclusion is possible, write no valid conclusion.

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