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Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. # \$ # \$ Exercises Use the figure and the given translation vector. m U 6. Number of Choices Cafeteria: Meal Number of Choices Point 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 5 60 B x D 5. is in plane Q. Find the coordinates of the orthocenter of ABC. Let 5 represent selecting a poster of the shortstop. Exercises Determine the probability of each event. <2 <3 --- --- 3. PQRS – TUWX 4 9 6 2 5 1 Determine whether each pair of figures is similar. # x+3 J 20 15 \$ X " K 7 % 3. Assume segments that appear to be tangent are tangent. 3). Exercises Find the magnitude and direction of each vector. <CBD <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<3 3. PKL TKM 7. 3 2. --- 2. , 3 RS -- Example Point X chosen at random on AD. The altitude is the segment from the vertex that is perpendicular to the base. For triangles, we say, "Corresponding pairs of congruent triangles are congruent," or CPCTC. T (4y - 5)" (2y + 5)" R P W V Chapter 1 10 Glencoe Geometry Copyright © Glencoe/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, CQ = 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. h. The area of JKL is 40 square inches. Find x and y so that FGJH is a F 6x + 3 6 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∠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 = q is true and p 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 then NPR = 2x + 14 2x + 14 = x + 34 - x = 2(20) + 14 + 14 = 34 = 40 + 14 + 14 = 34 - 14 = 54 x = 20 Exercises and QR are opposite rays. 3 4 34 34 3 5 3 87 5 5 4. C = 25h + 125 = 25(5.5) + 125 = 137.5 + 125 or \$262.50 Donna would earn more with the first plan. √ 12 y √3 1 Chapter 8 3. Then write a congruence statement. NAME DATE 8-4 PERIOD Study Guide and Intervention Trigonometry Trigonometric Ratios The ratio of the lengths of two sides of a right triangle is called a trigonometric ratio. Q is between 1. If BE = 6y + 2 and CE = 4y + 6, find y. % 4 82° 3. Name the vertex of 4. octagon 5. X(-3, -1), Y(-3, 3), Z(4, -1), P(4, 2) y 0 Chapter 1 x 0 12 x Glencoe Geometry Copyright © Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. S to QR 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: ∠ ABC ∠ DBE Statements Reasons 1. --- RO bisects ∠MRI and ∠MOH. Graph each figure. Let x represent the distance between cities. --- --- Prove: DE is not congruent to FE. ∠1 and ∠5. 20-gon 7. Example Determine whether each conclusion is valid based on the given information. --- --- --- 6. The axis 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. ∠EBC Using a protractor, m∠EBC = 90. B Reasons --- --- ABC is equilateral; PQ BC. AC DF 7. CE --- 2. y WXY with vertices W(3, -7), X(6, -7), Y(6, -2). The transformation of RST 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 Im 1m 3m Glencoe Geometry NAME DATE 12-8 PERIOD Study Guide and Intervention (continued) Congruent and Similar Solids Properties of Congruent or Similar Solids When pairs of solids are congruent or similar, certain properties are known. 0. If US = 6x + 3 and RT = 7x - 2, find x. ∠11 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 Events Conditional Probabilities Conditional probability is used to find the probability of dependent events. Drawing all of the diagonals from one vertex of an n-gon separates the polygon into n - 2 triangles. Determine whether each set of measures can be the measures of the sides of a triangle. B C A E F D Reasons 1. Then find each measure. Lesson/Title Page 1-1 1-2 1-3 1-4 1-5 1-6 1-7 Points, Lines, and Planes ..... Two lines intersect in two distinct points M and N. COORDINATE GEOMETRY Graph each pair of triangles with the given vertices. ∠4 8. 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 Principle 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) Example for Find the magnitude and direction of AB A(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)" (3x + 2)" + & 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 2. Chapter 6 3y 150 72x 73 Glencoe Geometry NAME DATE 6 -2 Study Guide and Intervention PERIOD (continued) Parallelograms A Diagonals of Parallelograms Two important properties of parallelograms deal with their 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. 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Neither part of the disjunction is true, so the compound statement is false. a - b a - b - b Method 2: Use the triangle method. Draw EG Extend AF --- , a 2 30° 2x MNQ is a 30°-60°-90° right triangle, and the length of the --- --- hypotenuse MN is two times the length of the shorter side NQ. 6 1.5 Using a ruler, the height of the pole, --- , x 7 so 1.5x = 42 and x = 28. Carl wants 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. The baseball team can wear blue or white shirts with blue or white pants. 1 2 s t c a d b v w x 4 5 6 If 1 2 3, a c then --- = - 60° 45° 50° U 30° 90° 45° 43 V 28° 92° D Glencoe Geometry NAME DATE 4-1 PERIOD Study Guide and Intervention (continued) Classifying Triangles Classify Triangles by Sides You can classify a triangle by the number of congruent sides, a line containing points 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 254 square centimeters. q r q or r p q or p and (q or r) perpendicular, then they form a right angle. 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. 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