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Lesson 9-1 reteach developing formulas for triangles and quadrilaterals answers

9.1 Reteach Name _____ Date _____ Class _____ LESSON 9-1 Reteach Developing Formulas for Triangles and Quadrilaterals Area of Triangles and Quadrilaterals Parallelogram Triangle $A = A = bh$ Trapezoid $1 bh$ $2 A = \frac{1}{2} (b_1 + b_2) h$ 2 Find the perimeter of the rectangle in which $A = 27$ mm 2 .
Step 1 Find the height. $A = bh$ Area of a rectangle $27 = 3h$ Substitute 27 for A and 3 for b . 9 mm = h Step 2 Divide both sides by 3 . Use the base and the height to find the perimeter. $P = 2b + 2h$ Perimeter of a rectangle $P = 2(3) + 2(9) = 24$ mm Substitute 3 for b and 9 for h . Find each measurement. 1. the area of the parallelogram 2. the base of the rectangle in which $A = 136$ mm 2 3. the area of the trapezoid 4. the height of the triangle in which $A = 192$ cm 2 6. b_2 of a trapezoid in which $A = 5$ ft 2 , $h = 2$ ft, and $b_1 = 1$ ft 5. the perimeter of a rectangle in which $A = 154$ in 2 and $h = 11$ in. Original content Copyright © by Holt McDougal. Additions and changes to the original content are the responsibility of the instructor. 9-6 Holt Geometry Name _____ Date _____
Class _____ LESSON 9-1 Reteach Developing Formulas for Triangles and Quadrilaterals continued Area of Rhombuses and Kites Rhombus $A = Kite$ $1 d_1 d_2$ $2 A = \frac{1}{2} d_1 d_2$ 2 Find d_2 of the kite in which $A = 156$ in 2 . $A = 156 = \frac{1}{2} d_1 d_2$ 2 Area of a kite $1 (26) d_2$ 2 Substitute 156 in 2 for A and 26 in. for d_1 . $156 = 13d_2$ 12 in. = d_2 Simplify. Divide both sides by 13 . Find each measurement. 8. d_1 of the kite in which $A = 414$ ft 2 7. the area of the rhombus 9. d_2 of the rhombus in which $A = 90$ m 2 10. d_1 of the kite in which $A = 39$ mm 2 Original content Copyright © by Holt McDougal. Additions and changes to the original content are the responsibility of the instructor. 9-7 Holt Geometry 7. $(7, -3)$ 8. 19 9. 5 10. 3 , 58° , or 7.6 11. 5 58 , or 38.1 12. 0.5 13. 60° 14. 45° 12 cm \times 4 . $b_1 = x$ in. 5. $A = 660$ mm 2 6. $A = (45a + 18ac)$ km 2 7. $P = 30.4$ yd 15. 143° 8. $A = (xy - 2x + 4y - 8)$ m 2 16. They are perpendicular. If the dot product is 0, then the numerator of the expression r is equals 0, and the value of the r s entire expression is 0. A calculator tells us that $\cos^{-1} 0 = 90^\circ$. 9. $d_2 = 4a$ ft Practice C 1. Possible answer: Draw a segment showing the height from B to AD and label it h . The area of a parallelogram is bh . Since b is known and $h = c \sin A$, a formula for the area of the parallelogram is $A = bc \sin A$. Problem Solving 1. 23° 2. 13 units 3. $(4.9, 0.5)$ 4. 4.9 mi/h 5. 6° or $N 84^\circ E$ 6. C 7. F 8. C 2. Possible answer: A rectangle is a parallelogram in which the measure of each angle is 90° . $\sin 90^\circ = 1$. So $A = bc \sin A$ becomes $A = bc$, the product of the length and the width of the rectangle. 9. H 3. $A = 79.9$ mm 2 Reading Strategies 2 1. Equal 2. $(3, 8)$ 5. $A = 177.5$ mi 3.69° 4. 5.7 Possible answer: 5.6 3 6. 5.1 4. $b_2 \approx 6.4$ in. 6. $x \approx 60.3$ 7. $(-3, 1)$ LESSON 9-1 Practice A 1. triangle 2. $1 d_1 d_2$ 2 Reteach 1. $A = 60$ in 2 3. areas 3. $A = 91$ m 4 , parallelogram or rectangle 5. $P = 50$ in. 5. 2. $b = 17$ mm 2 $1 (b_1 + b_2)h$ 2 8. $A = 567$ mm 2 7. $A = 70$ cm 8. $d_1 = 36$ ft 9. $d_2 = 12$ m 10. $d_1 = 13$ mm 11. $d_1 = 4x$ m 2 9. $h = 30$ ft 10. $A = 30$ km 12. $A = 14a$ 2b in 2 Challenge 11. $d_2 = 9$ yd 1. $A = Practice$ B 1. $P = (4x + 2y)$ mi 2 6. $b_2 = 4$ ft 2 6. $A = 48$ m 2 7. $b = 3$ in. 4. $h = 16$ cm 1 (PK)(MN) 2 2. midsegment; Midsegment 2 2 2 2. $A = (a - b) = (a - 2ab + b)$ ft 3 . $21 + 15$; 18 cm; Trapezoid Midsegment 4. PL TS; Proportionality Original content Copyright © by Holt McDougal. Additions and changes to the original content are the responsibility of the instructor. A16 Holt Geometry 1 9-1 Developing Formulas for Triangles and Quadrilaterals Warm UpLesson Presentation Lesson Quiz Holt Geometry 2 Warm Up Find the unknown side length in each right triangle with legs a and b and hypotenuse c . 1. $a = 20$, $b = 21$ 2. $b = 21$, $c = 35$ 3. $a = 20$, $c = 52$ $c = 29$ $a = 28$ $b = 48$ 3 Objectives Develop and apply the formulas for the areas of triangles and special quadrilaterals. Solve problems involving perimeters and areas of triangles and special quadrilaterals. 4 A tangram is an ancient Chinese puzzle made from a squareA tangram is an ancient Chinese puzzle made from a square. The pieces can be rearranged to form many different shapes. The area of a figure made with all the pieces is the sum of the areas of the pieces. 5 Recall that a rectangle with base b and height h has an area of $A = bh$. You can use the Area Addition Postulate to see that a parallelogram has the same area as a rectangle with the same base and height. 6 Remember that rectangles and squares are also parallelogramsRemember that rectangles and squares are also parallelograms. The area of a square with side s is $A = s^2$, and the perimeter is $P = 4s$. 7 The height of a parallelogram is measured along a segment perpendicular to a line containing the base. Remember! 8 The perimeter of a rectangle with base b and height h is $P = 2b + 2h$ orRemember! 9 Example 1A: Finding Measurements of ParallelogramsFind the area of the parallelogram. Step 1 Use the Pythagorean Theorem to find the height h . $30^2 + h^2 = 34^2$ $h = 16$ Step 2 Use h to find the area of the parallelogram. Area of a parallelogram $A = bh$ $A = 11(16)$ Substitute 11 for b and 16 for h . $A = 176$ mm 2 Simplify. 10 Example 1B: Finding Measurements of ParallelogramsFind the height of a rectangle in which $b = 3$ in. and $A = (6x^2 + 24x - 6)$ in 2 . $A = bh$ Area of a rectangle Substitute $6x^2 + 24x - 6$ for A and 3 for b . $6x^2 + 24x - 6 = 3h$ $3(2x^2 + 8x - 2) = 3h$ Factor 3 out of the expression for A . Divide both sides by 3. $2x^2 + 8x - 2 = h$ $h = (2x^2 + 8x - 2)$ in. Sym. Prop. of = 11 Example 1C: Finding Measurements of ParallelogramsFind the perimeter of the rectangle, in which $A = (79.8x^2 - 42)$ cm 2 Step 1 Use the area and the height to find the base. $A = bh$ Area of a rectangle $79.8x^2 - 42 = b(21)$ Substitute $79.8x^2 - 42$ for A and 21 for h . $3.8x^2 - 2 = b$ Divide both sides by 21. 12 Example 1C Continued Step 2 Use the base and the height to find the perimeter. $P = 2b + 2h$ Perimeter of a rectangle Substitute $3.8x^2 - 2$ for b and 21 for h . $P = 2(3.8x^2 - 2) + 2(21)$ $P = (7.6x^2 + 38)$ cm Simplify. 13 Check It Out! Example 1 Find the base of the parallelogram in which $h = 56$ yd and $A = 28$ yd 2 . $A = bh$ Area of a parallelogram $28 = b(56)$ Substitute. Simplify. $b = 0.5$ yd 14 15 Example 2A: Finding Measurements of Triangles and TrapezoidsFind the area of a trapezoid in which $b_1 = 8$ in., $b_2 = 5$ in., and $h = 6.2$ in. Area of a trapezoid Substitute 8 for b_1 , 5 for b_2 , and 6.2 for h . $A = 40.3$ in 2 Simplify. 16 Example 2B: Finding Measurements of Triangles and TrapezoidsFind the base of the triangle, in which $A = (15x^2)$ cm 2 . Area of a triangle Substitute $15x^2$ for A and $5x$ for h . Divide both sides by x . Multiply both sides by 6. $6x = b$ $b = 6x$ cm Sym. Prop. of = 17 Example 2C: Finding Measurements of Triangles and TrapezoidsFind b_2 of the trapezoid, in which $A = 231$ mm 2 . Area of a trapezoid Substitute 231 for A , 23 for b_1 , and 11 for h . Multiply both sides by b_2 . $42 = 23 + b_2$ $19 = b_2$ Subtract 23 from both sides. $b_2 = 19$ mm Sym. Prop. of = 18 Check It Out! Example 2 Find the area of the triangle. Find b . Area of a triangle Substitute 16 for b and 12 for h . $A = 96$ m 2 Simplify. 19 The diagonals of a rhombus or kite are perpendicular, and the diagonals of a rhombus bisect each other. Remember! 20 21 Example 3A: Finding Measurements of Rhombuses and KitesFind d_2 of a kite in which $d_1 = 14$ in. and $A = 238$ in 2 . Area of a kite Substitute 238 for A and 14 for d_1 . $34 = d_2$ Solve for d_2 . $d_2 = 34$ Sym. Prop. of = 22 Example 3B: Finding Measurements of Rhombuses and KitesFind the area of a rhombus. Area of a rhombus Substitute $(8x+7)$ for d_1 and $(14x-6)$ for d_2 . Multiply the binomials (FOIL). Distrib. Prop. 23 Example 3C: Finding Measurements of Rhombuses and KitesFind the area of the kite Step 1 The diagonals d_1 and d_2 form four right triangles. Use the Pythagorean Theorem to find x and y . $28^2 + y^2 = 35^2$ $21^2 + x^2 = 29^2$ $y^2 = 441 - x^2 = 400$ $x = 20$ $y = 21$ 24 Example 3C Continued Step 2 Use d_1 and d_2 to find the area. d_1 is equal to $x + 28$, which is 48. Half of d_2 is equal to 21, so d_2 is equal to 42. Area of kite Substitute 48 for d_1 and 42 for d_2 . $A = 1008$ in 2 Simplify. 25 Check It Out! Example 3 Find d_2 of a rhombus in which $d_1 = 3x$ m and $A = 12xy$ m 2 . Formula for area of a rhombus Substitute. $d_2 = 8y$ m Simplify. 26 Example 4: Games ApplicationThe tile design shown is a rectangle with a base of 4 in. and a height of 2 in. Use the grid to find the perimeter and area of the leftmost shaded parallelogram. Perimeter: Two sides of the parallelogram are vertical and the other two sides are diagonals of a square of the grid. Each grid square has a side length of 1 in., so the diagonal is The perimeter of the leftmost shaded parallelogram is $P = 2(1)+2(1) = ()$ in. in. 27 Example 4 Continued The tile design shown is a rectangle with a base of 4 in. and a height of 2 in. Use the grid to find the perimeter and area of the leftmost shaded parallelogram. Area: The base and height of the leftmost shaded parallelogram each measure 1 in., so the area is $A = bh = (1)(1) = 1$ in 2 , in. 28 Check It Out! Example 4 In the tangram, find the perimeter and area of the large green triangle. Each grid square has a side length of 1 cm. The perimeter is $P = ()$ cm. The area is $A = 4$ cm 2 . 29 Lesson Quiz: Part I Find each measurement. 1. the height of the parallelogram, in which $A = 182x^2$ mm 2 $h = 9.1x$ mm 2. the perimeter of a rectangle in which $h = 8$ in. and $A = 28x$ in 2 $P = (16 + 7x)$ in. 30 Lesson Quiz: Part II 3. the area of the trapezoid $A = 16.8x$ ft 2 4. the base of a triangle in which $h = 8$ cm and $A = (12x + 8)$ cm 2 $b = (3x + 2)$ cm 5. the area of the rhombus $A = 1080$ m 2 31 Lesson Quiz: Part III 6. The wallpaper pattern shown is a rectangle with a base of 4 in. and a height of 3 in. Use the grid to find the area of the shaded kite. $A = 3$ in 2

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