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Unit 12 Study Guide

Square Roots

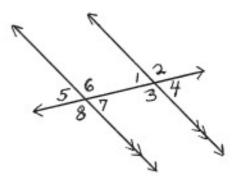
These questions are about two different squares.

- 1. A square has a side length of 36 units. What is the area of the square?
- 2. A different square has an area of 36 units. What is the side length of this square?

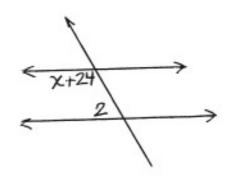
Angles

Use the image at right for 3 to 5.

- ∠6 and ∠3 are _____ angles.
 - A. Supplementary
 - B. Parallel
 - C. Alternate Interior
 - D. Corresponding
 - E. None of these
- ∠5 and ∠8 are _____ angles.
 angles.
 - A. Corresponding
 - B. Vertical
 - C. Right
 - D. Supplementary
 - E. None of these
- Find the value of x in the diagram at right.



- ∠6 and ∠8 are
 - A. Corresponding
 - B. Vertical
 - C. Right
 - D. Supplementary
 - E. None of these

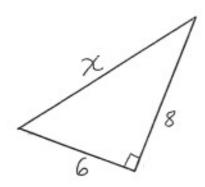


Pythagorean Theorem

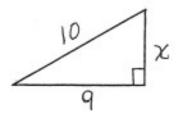
Determine whether the following numbers could be the sides of a right triangle. Show your work.

6, 10, 12

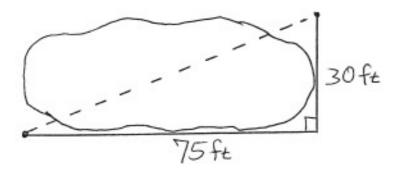
8.) Solve for x in the triangle.



9.) Find the leg of the right triangle. Show your work.



10.) Find the missing side:



Exponent Review

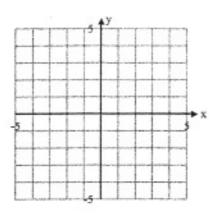
Simplify

11.)
$$2x^4(x^5)$$

12.)
$$\frac{10x^6}{2x^3}$$

Graphing Review

13.) Graph y = -3x + 3



Equation Review

14.)
$$2-3x-3=-2(3x-1)$$

15.)
$$\frac{x}{5} + \frac{1}{2} = 2x + 1$$

System of Equations Review

16.) Where do the lines listed below intersect? Show your work.

$$y = 5x - 2$$

$$y = 6x - 5$$