

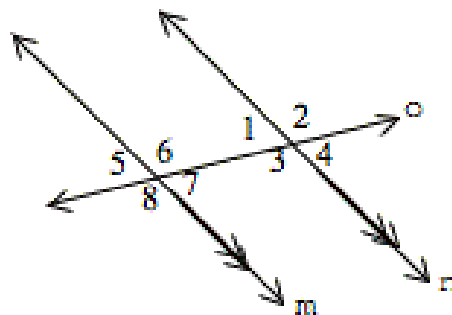
Chapter 9 Study Guide**Square Roots***These questions are about two different squares.*

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 square units. What is the side length of this square?

Angles*Use the image at right for 3 – 5.*

- 3.)
- $\angle 6$
- and
- $\angle 3$
- are _____ angles.

- A. Supplementary
- B. Parallel
- C. Alternate Interior
- D. Corresponding
- E. None of these



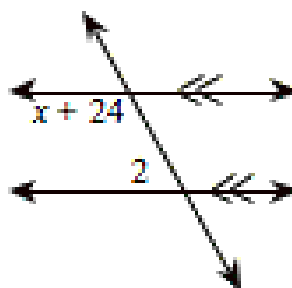
- 4.)
- $\angle 5$
- and
- $\angle 8$
- are _____ angles.

- A. Corresponding
- B. Vertical
- C. Right
- D. Supplementary
- E. None of these

- 5.)
- $\angle 6$
- and
- $\angle 8$
- are _____ angles.

- A. Corresponding
- B. Vertical
- C. Right
- D. Supplementary
- E. None of these

- 6.) Find the value of
- x
- in the diagram at right.

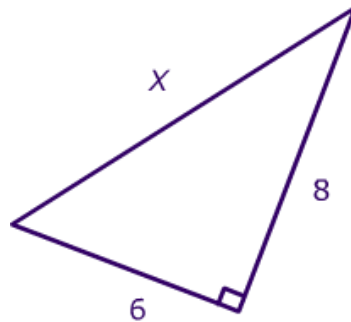


Pythagorean Theorem

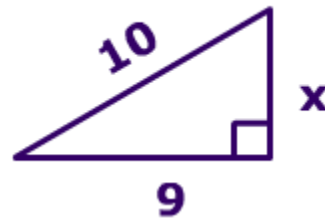
7.) Determine whether the following numbers could be the sides of a right triangle. Show your work.

6, 10, 12

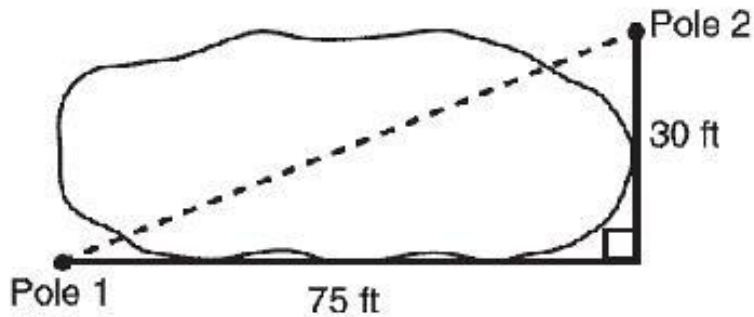
8.) Solve for x in the triangle.



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



10.) Find the missing side:



Exponent Review

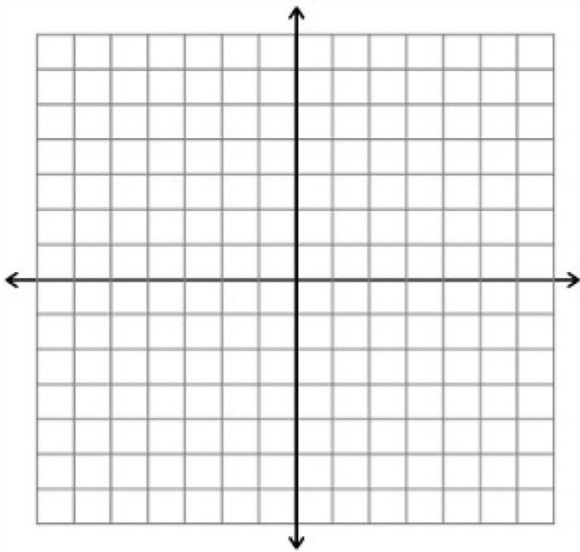
Simply each.

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

$$Y = 5x - 2$$

$$Y = 6x - 5$$