

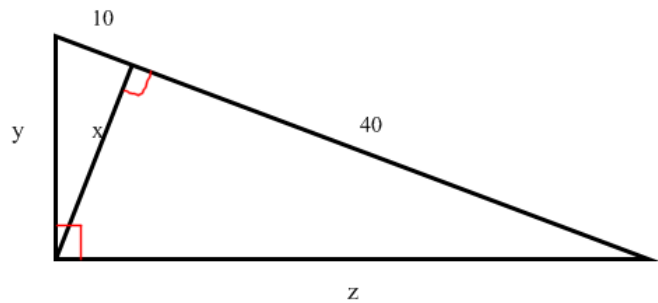
Take-Home Quiz
Chapter 7.1-7.3

Name _____ Section: _____

Find the geometric mean for each pair of numbers.

1. 5 and 20
2. $\frac{5\sqrt{3}}{2}$ and $\frac{\sqrt{3}}{2}$

Use the following diagram. Find x, y, z without using the Pythagorean Theorem.



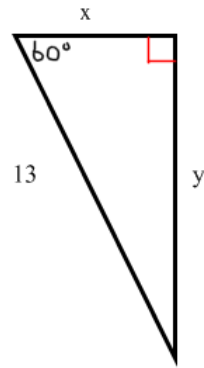
3. Altitude $x =$

4. Leg $y =$

5. Leg $z =$

6. Does $\sqrt{3}, \sqrt{8}, \sqrt{11}$ constitute a Pythagorean triple? Why or why not?

Use the following diagram to find x and y .



7. $x =$

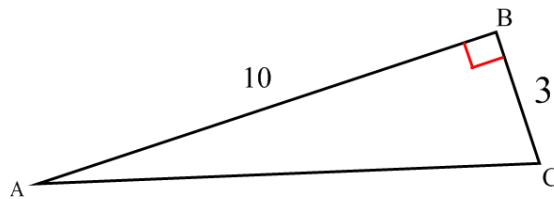
8. $y =$

9. The length of a diagonal of a square is $30\sqrt{2}$.

a. What is the length of the square's side?

b. What is the perimeter of the square? (Hint: draw the square and diagonal.)

10. Give the 3 trigonometric ratios for $\angle A$.



$\sin A =$ _____

$\cos A =$ _____

$\tan A =$ _____