

**REVIEW RIGHT TRIANGLES**  
**GEOMETRIC MEAN, PYTHAGOREAN THEOREM, AND SPECIAL RIGHT TRIANGLES**

SIMPLIFY THE EXPRESSION.

1)  $\sqrt{5480}$  \_\_\_\_\_

2)  $\sqrt{\frac{450}{20}}$  \_\_\_\_\_

3)  $\sqrt{845}$  \_\_\_\_\_

4)  $\sqrt{\frac{27}{2}}$  \_\_\_\_\_

FIND THE VALUES OF  $x$ ,  $y$ , and  $z$ . EXPRESS EACH ANSWER IN SIMPLEST FORM.

5)  $x =$  \_\_\_\_\_

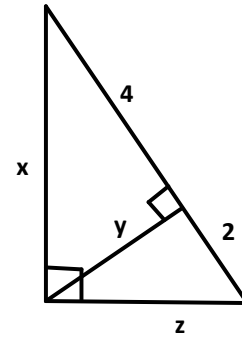
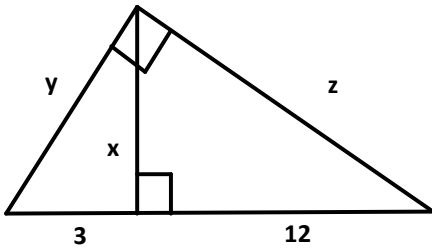
$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_

6)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_



7)  $x =$  \_\_\_\_\_

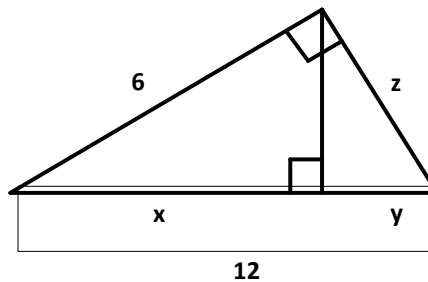
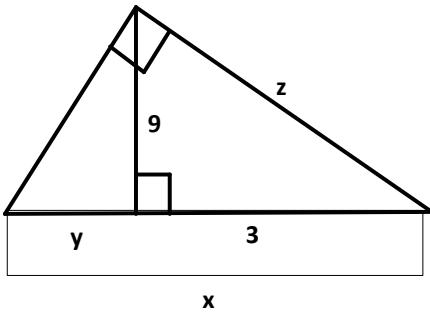
$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_

8)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_



DETERMINE WHETHER THE GIVEN LENGTHS OF THE SIDES OF A TRIANGLE ARE THE SIDES OF A RIGHT TRIANGLE, ACUTE TRIANGLE, OR AN OBTUSE TRIANGLE.

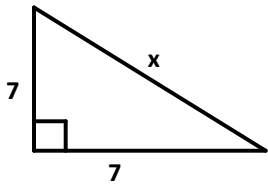
9) 6, 8, 10 \_\_\_\_\_

10) 5, 7, 6 \_\_\_\_\_

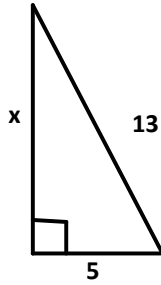
11) 5,  $5\sqrt{3}$ , 10 \_\_\_\_\_

FIND A VALUE FOR  $x$ . SIMPLIFY YOUR ANSWER. SHOW YOUR WORK!!

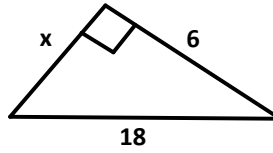
12)  $x =$  \_\_\_\_\_



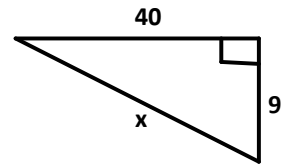
13)  $x =$  \_\_\_\_\_



14)  $x =$  \_\_\_\_\_



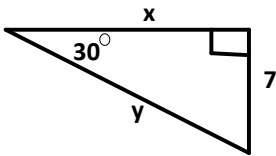
15)  $x =$  \_\_\_\_\_



FIND A VALUE FOR  $x$ ,  $y$ , and  $z$ . SIMPLIFY YOUR ANSWER. SHOW YOUR WORK !!!

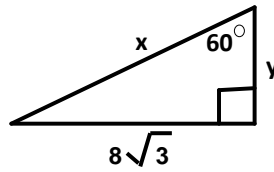
16)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



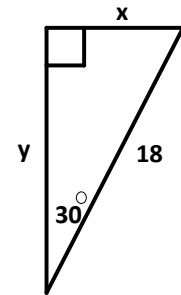
17)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



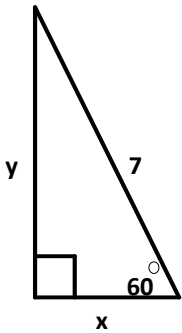
18)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



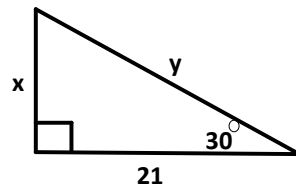
19)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



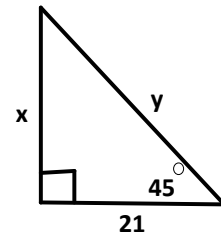
20)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



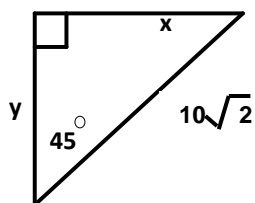
21)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



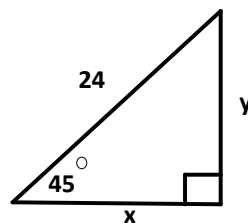
22)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



23)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_



24)  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

