

4.5 – SIMILARITY IN RIGHT TRIANGLES

Find the geometric mean of each pair of numbers. *If necessary, give the answer in simplest radical form.*

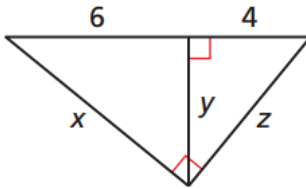
1. 5 and 45

2. 9 and 12

3. 5 and 18

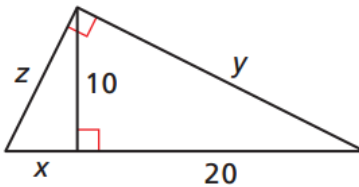
Use similar right triangle relationships and/or the Pythagorean Theorem to find the values of x , y , & z . *If necessary, give the answer in simplest radical form.*

4.



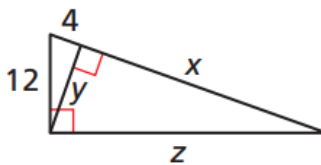
$x =$ _____ $y =$ _____ $z =$ _____

5.

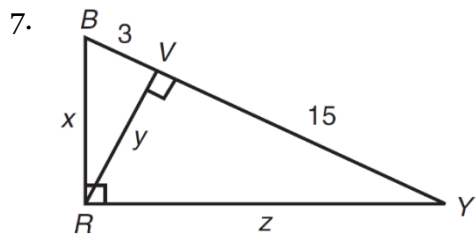


$x =$ _____ $y =$ _____ $z =$ _____

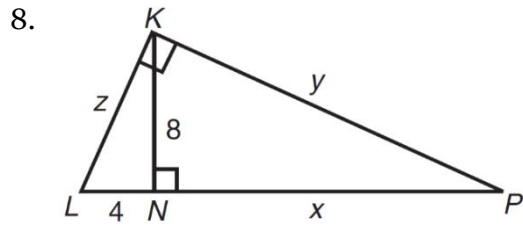
6.



$x =$ _____ $y =$ _____ $z =$ _____



$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$



$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$

Use similar right triangle relationships to find the value of x .

