

4.5.D1 – Similarity in Right Triangles

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

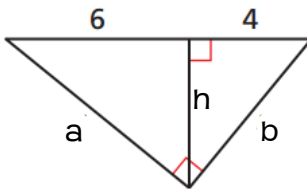
1. 5 and 45

2. 9 and 12

3. 5 and 18

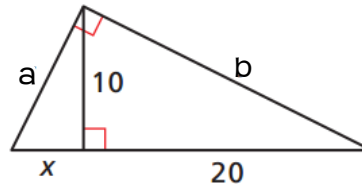
Use similar right triangle relationships and/or the Pythagorean Theorem to find the value of the variables. *If necessary, give the answer in simplest radical form.*

4.



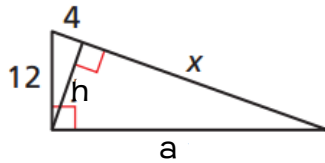
$a = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$ $h = \underline{\hspace{2cm}}$

5.



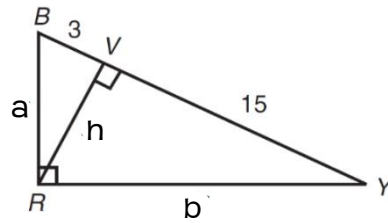
$x = \underline{\hspace{2cm}}$ $a = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$

6.



$x = \underline{\hspace{2cm}}$ $a = \underline{\hspace{2cm}}$ $h = \underline{\hspace{2cm}}$

7.



$h = \underline{\hspace{2cm}}$ $a = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$