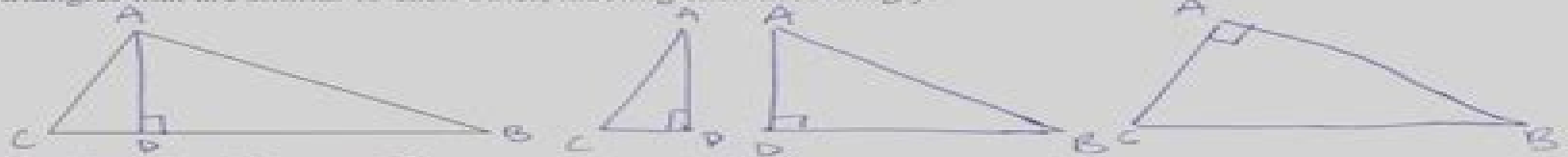


Chapter 7, Section 4

Theorem 7-3

The altitude to the hypotenuse of a right triangle divides the triangle into two triangles that are similar to the original triangle and similar to each other.

Draw the Altitude of the triangle below and give labels to each point, and then draw the three triangles that are similar to each other, labeling each accordingly.



Corollary 1 to Theorem 7-3

The length of the altitude to the hypotenuse of a right triangle is the geometric mean of the lengths of the segments of the hypotenuse.

Corollary 2 to Theorem 7-3

The altitude to the hypotenuse of a right triangle separates the hypotenuse so that the length of each leg of the triangle is the geometric mean of the length of the adjacent hypotenuse (next to) and the length of the hypotenuse.

The geometric mean of two positive numbers a and b is a number x such that

$$\frac{a}{x} = \frac{x}{b}$$

(cross-multiplying)
 $x^2 = ab$
 $x = \sqrt{ab}$

Example 1: Find the geometric mean of 3 and 12.

$$\frac{3}{x} = \frac{x}{12} \quad x^2 = 36 \quad \boxed{x = 6}$$

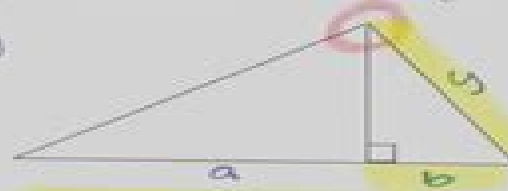
Example 3: Find the geometric mean of $\sqrt{8}$ and $\sqrt{2}$.

$$\frac{\sqrt{8}}{x} = \frac{x}{\sqrt{2}} \quad \sqrt{16} = x^2 \quad 4 = x^2 \quad \boxed{x = 2}$$

If we are only given pictures, how are the sides of the triangles related to find the geometric mean?



$$\frac{a}{x} = \frac{x}{a+b}$$



$$\frac{b}{y} = \frac{y}{a+b}$$



Example 2: Solve for x .

$$\frac{15}{x} = \frac{x}{5} \quad x^2 = 5 \cdot 15 \quad \boxed{x = 5\sqrt{3}}$$

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