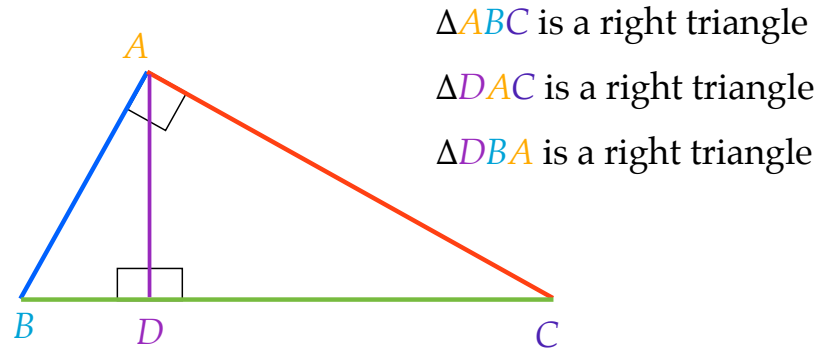


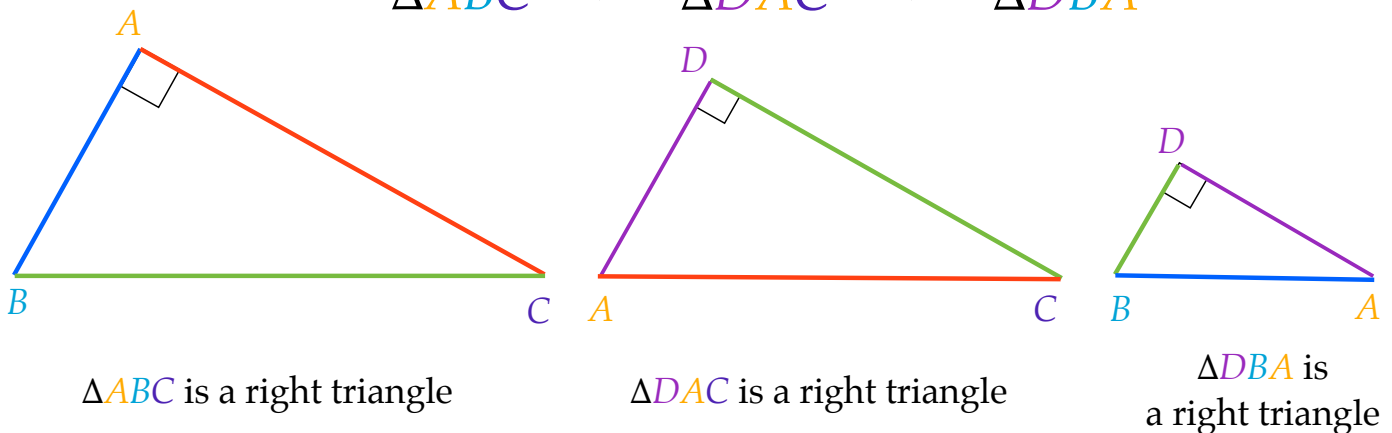
Similarity within a Right Triangle

An **altitude** drawn from a **vertex** to a **hypotenuse** of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

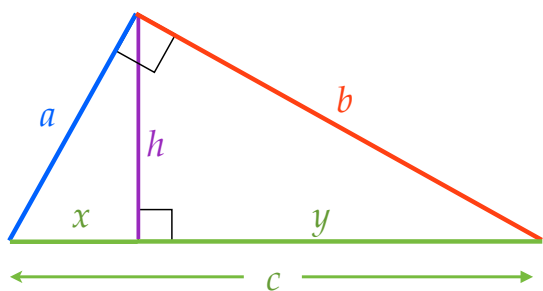


An **altitude** drawn from a **vertex** to a **hypotenuse** of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

$$\triangle ABC \sim \triangle DAC \sim \triangle DBA$$

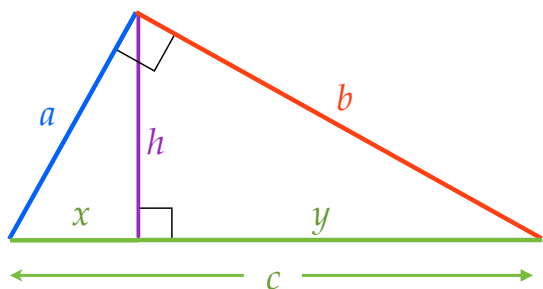


Complete the following proportions of the three similar right triangles



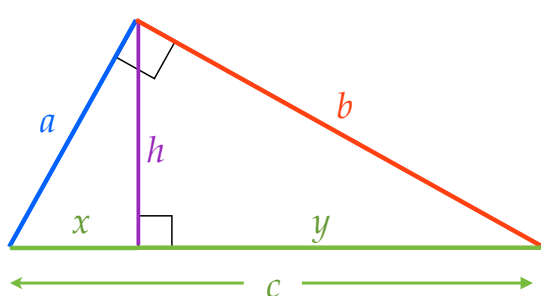
$$\frac{b}{c}$$

Complete the following proportions of the three similar right triangles



$$\frac{a}{b}$$

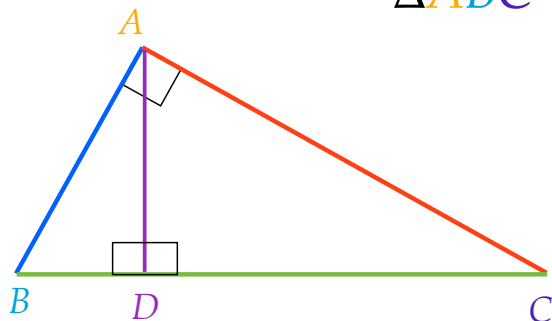
Complete the following proportions of the three similar right triangles



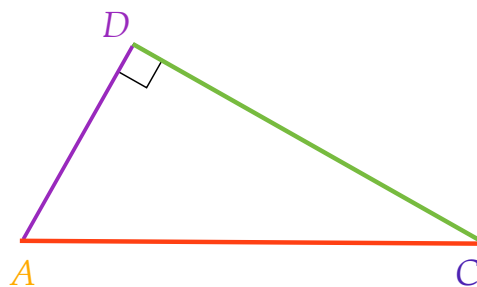
$$\frac{b}{h}$$

An **altitude** drawn from a **vertex** to a **hypotenuse** of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

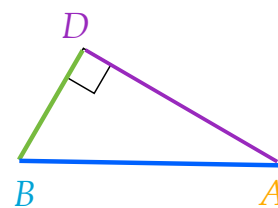
$$\triangle ABC \sim \triangle DAC \sim \triangle DBA$$



$\triangle ABC$ is a right triangle



$\triangle DAC$ is a right triangle



$\triangle DBA$ is a right triangle