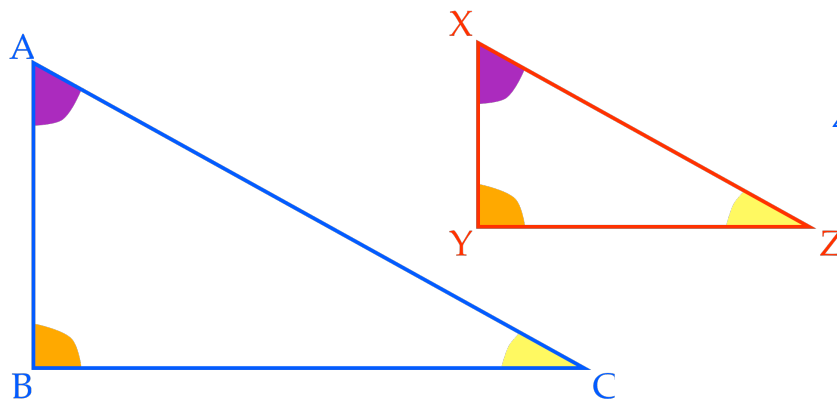


Similar Triangles

Two triangles are similar if and only if...

1. corresponding angles are congruent
2. corresponding sides are proportional.



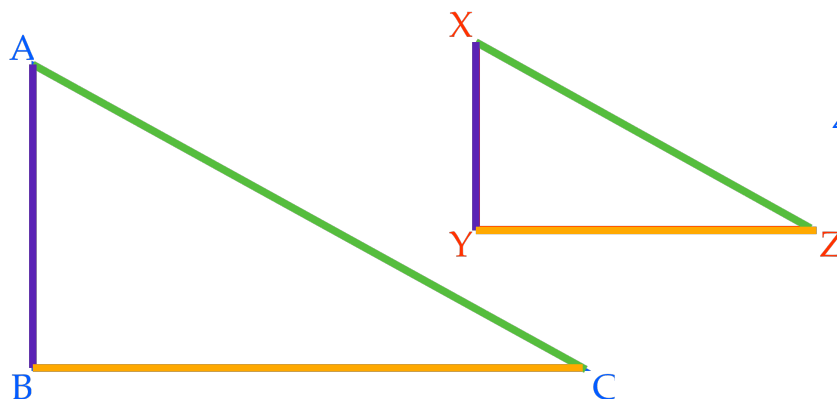
let $\triangle ABC \sim \triangle XYZ$

$$\angle A \cong \angle X \quad \angle B \cong \angle Y \quad \angle C \cong \angle Z$$

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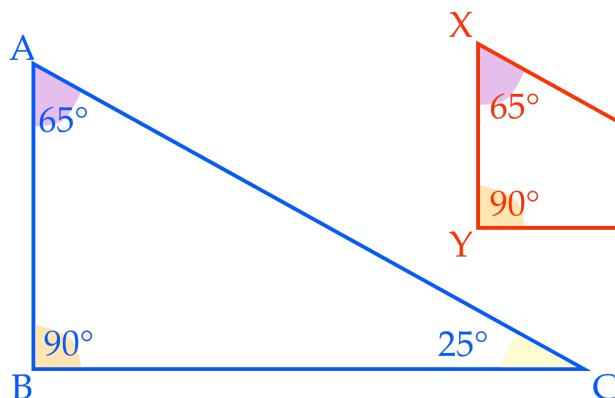
$$\angle A \cong \angle X \quad \angle B \cong \angle Y \quad \angle C \cong \angle Z$$

$$\frac{AC}{XZ} = \frac{AB}{XY} = \frac{BC}{YZ}$$

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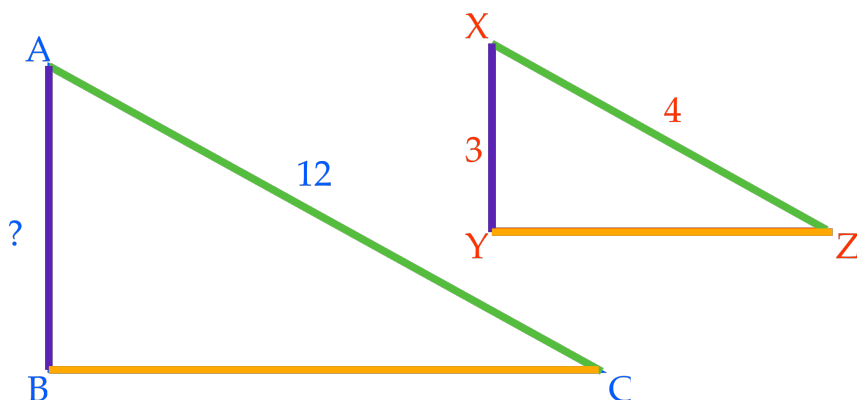
$$m\angle X = 65^\circ \quad m\angle C = 25^\circ$$

$$m\angle Y = 90^\circ \quad m\angle B = 90^\circ$$

Similar Triangles

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let $\triangle ABC \sim \triangle XYZ$