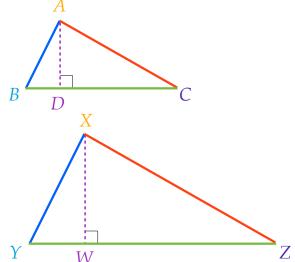
Date ______ Period _____

If two triangles are similar, then the measures of the corresponding altitudes are proportional to the same measures of the corresponding sides.



Statements

If
$$\triangle ABC \sim \triangle XYZ...$$

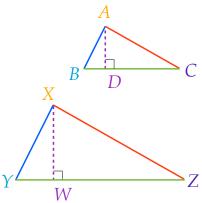
Proportional Sides

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

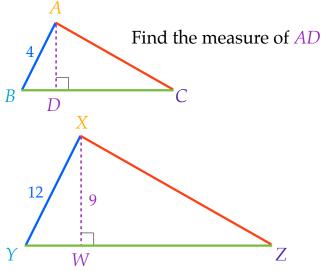
$\frac{AD}{XW}$ is an altitude of
Prove: $\frac{AD}{XW} = \frac{AC}{XZ}$
$A \sim$
B
$X \longrightarrow D$

Reasons

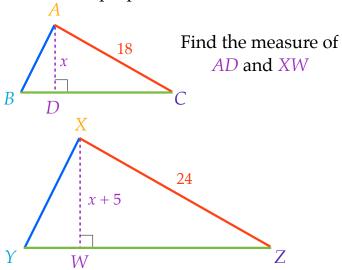
Given: $\Delta ABC \sim \Delta XYZ$ \overline{AD} is an altitude of ΔABC \overline{XW} is an altitude of ΔXYZ



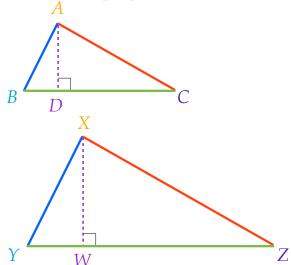
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If
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Proportional Sides

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