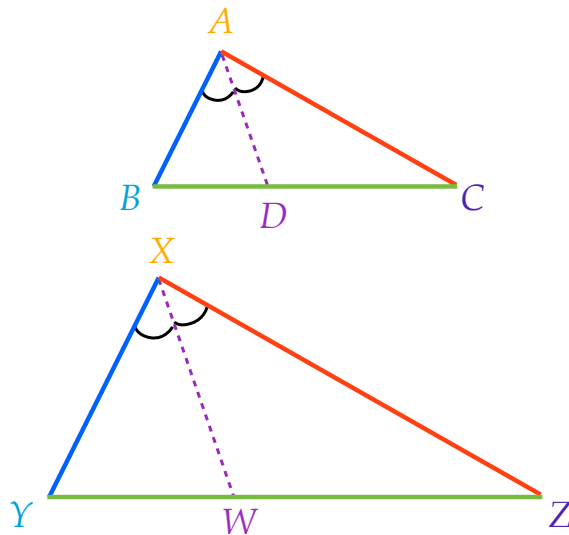


Proportional Angle Bisectors of Similar Triangles

If two triangles are similar, then the measures of the corresponding angle bisectors are proportional to the measures of the corresponding sides.

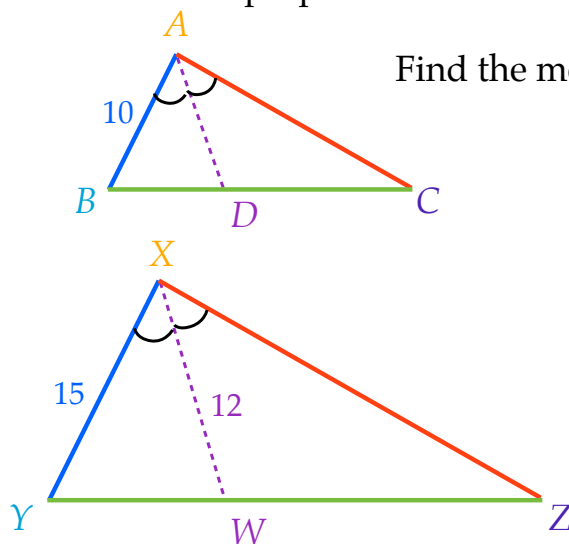


If $\triangle ABC \sim \triangle XYZ$...

Proportional Sides

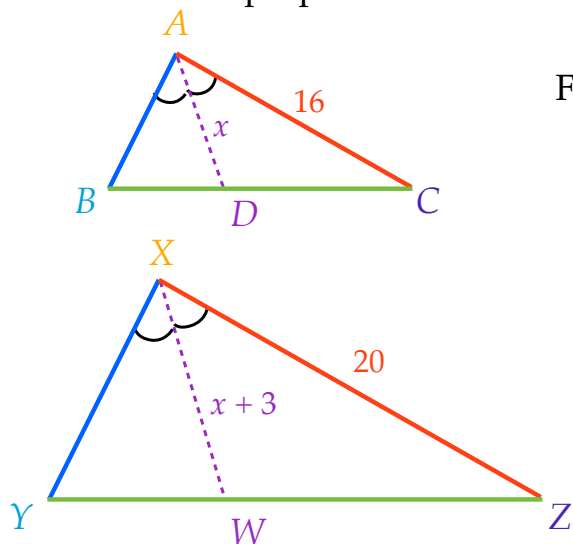
$$\frac{AB}{XY} = \frac{BC}{YZ} = \frac{AC}{XZ} = \frac{AD}{XW}$$

If two triangles are similar, then the measures of the corresponding angle bisectors are proportional to the measures of the corresponding sides.



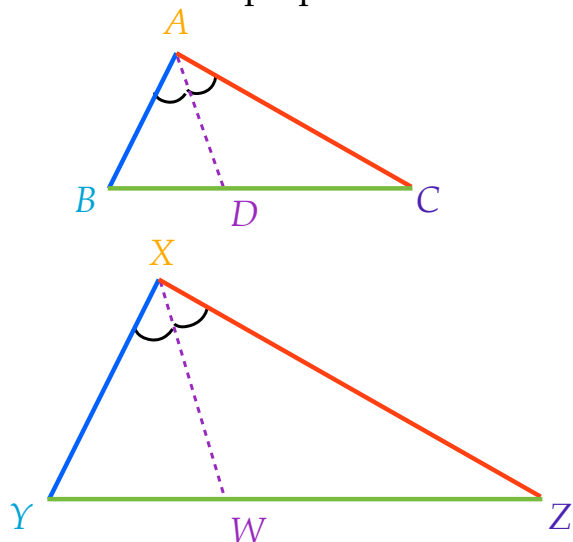
Find the measure of AD

If two triangles are similar, then the measures of the corresponding angle bisectors are proportional to the measures of the corresponding sides.



Find the measure of
 AD and XW

If two triangles are similar, then the measures of the corresponding angle bisectors are proportional to the measures of the corresponding sides.



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

Proportional Sides

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