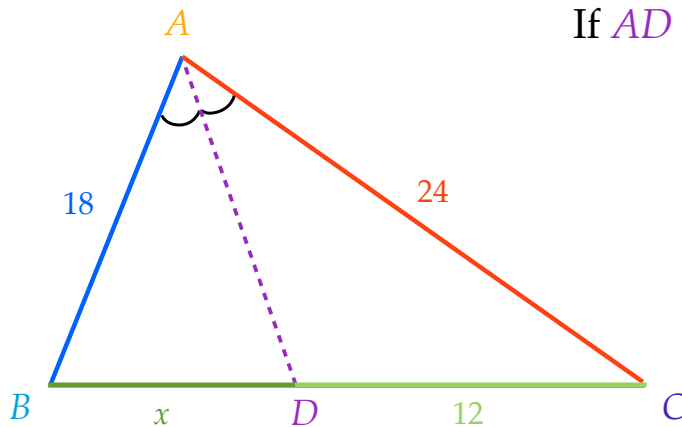An angle bisector in a triangle separates the opposite side into segments that have the same ratio as the other two sides.

If $\overline{AD}$ is and angle bisector of ΔABC

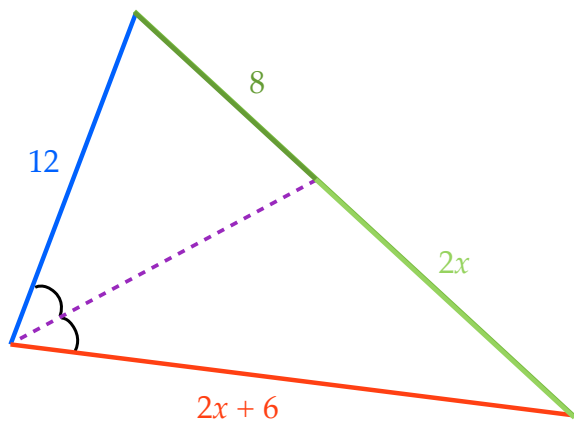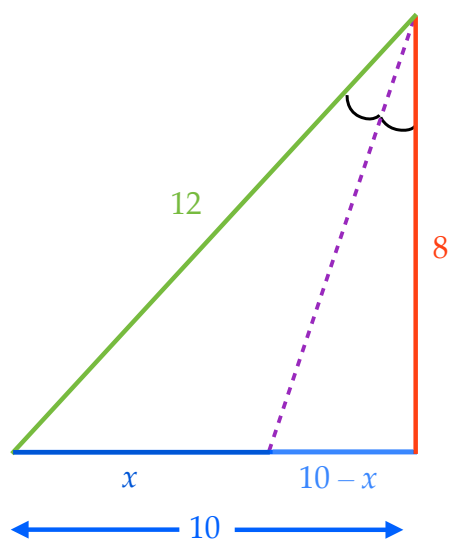then $\dfrac{AB}{AC} = \dfrac{BD}{DC}$

Determine the value of x.
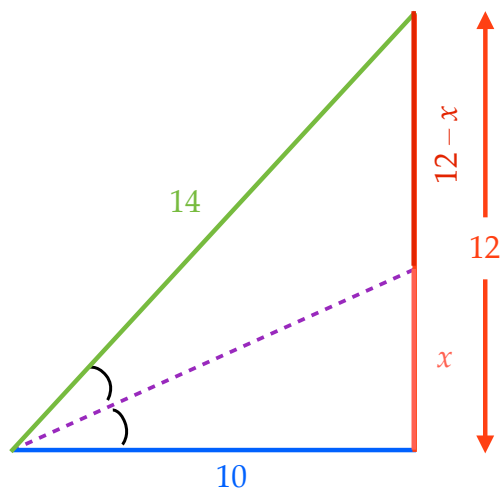
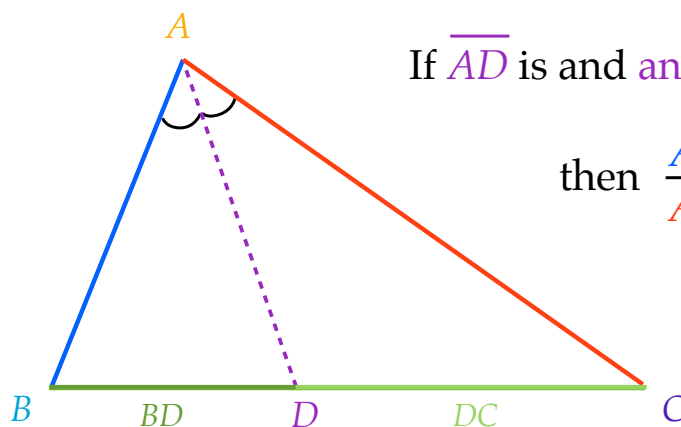If $\overline{AD}$ is and angle bisector of ΔABC

Determine the value of x.

Determine the value of x.

Determine the value of x.

14

10

12

$12 - x$

x

An angle bisector in a triangle separates the opposite side into segments that have the same ratio as the other two sides.

A

B

BD

D

DC

C

If $\overline{AD}$ is and angle bisector of ΔABC

then $\dfrac{AB}{AC} = \dfrac{BD}{DC}$