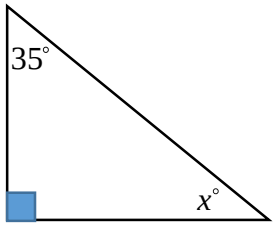
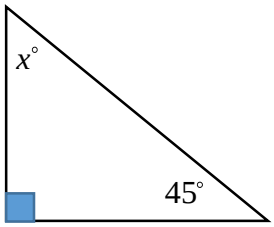
Math 9 *Name:* _____

9.0 – Review: Right Triangles & Circles *Date:* _____

Angles in a Triangle always add up to: _____

Determine the value of angle x in the following triangles:

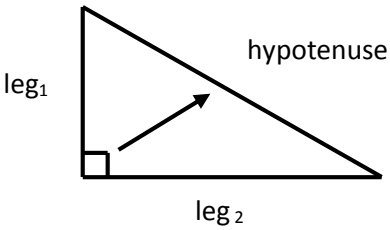




The ***Pythagorean Theorem*** states:

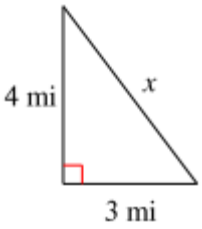
Length of Hypotenuse = $\sqrt{leg_1^{\,2} + leg_2^{\,2}}$

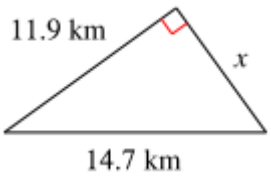
and Length of a *leg* $_1$ = $\sqrt{hyp^2 - leg_2^{\,2}}$

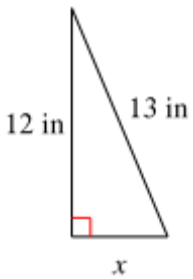


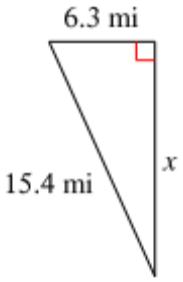
The hypotenuse is always the **LONGEST** leg in a triangle.

Determine the value of x in the following triangles:







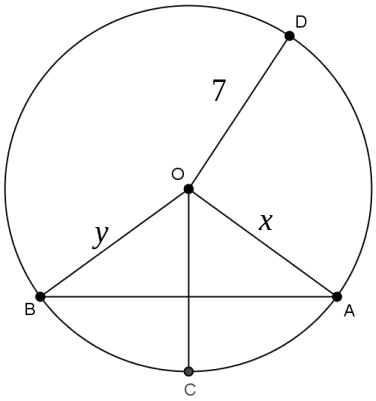


Circle Properties

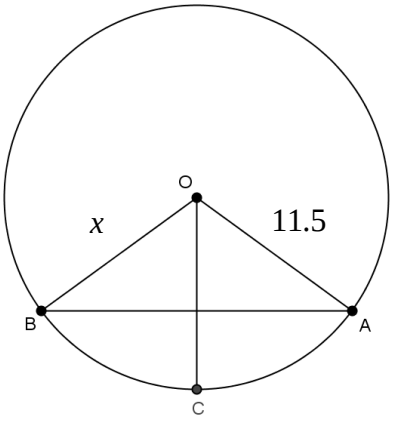
A ***CHORD*** is a ***LINE SEGMENT*** that _____.

A ***DIAMETER*** is a ***CHORD*** that _____.

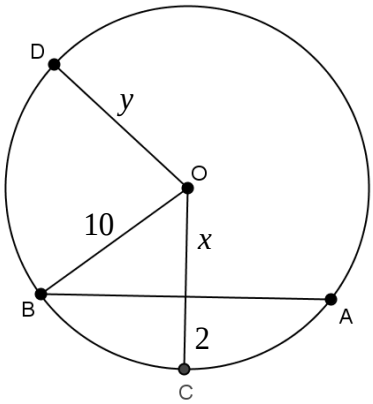
A ***RADIUS*** is a ***LINE SEGMENT*** _____.



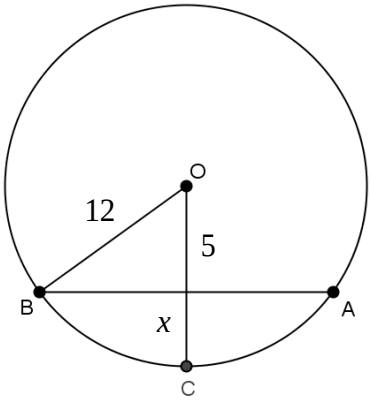
Find the values of x, y, OC.



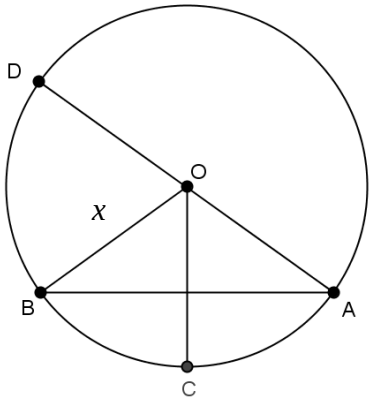
Find the value of x.



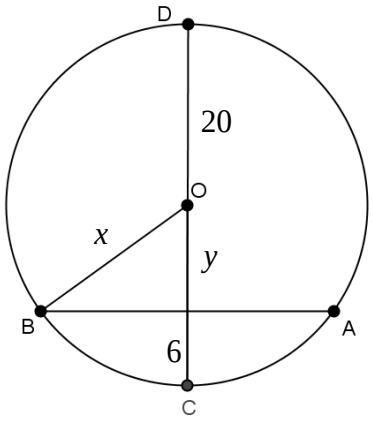
Find the value of x



Find the value of x .



Given $AD = 18$, find the value of x .



Find the values of $x,\ y$.