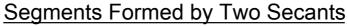
DO NOW

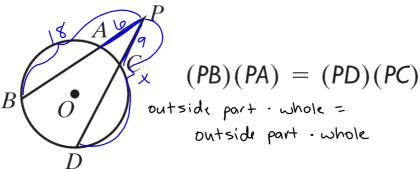
In the diagram below of circle O, chords \overline{AB} and \overline{CD} intersect at E.

$$10.6 = 4.x$$
 $\frac{60}{4} = \frac{4x}{4}$
 $15 = x$
 $EB = 15$

If CE = 10, ED = 6, and AE = 4, what is the length of \overline{EB} ?

Mar 28-10:10 AM





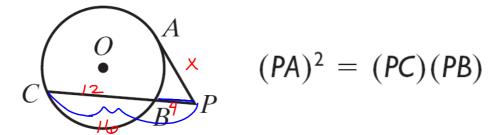
EX: If PA = 6, PB = 18 and PC = 9, find PA = 6.

$$12 = x$$

$$PD = 12$$

Mar 23-10:07 AM

Segments Formed by a Tangent and a Secant



EX: If PB = 4 and BC = 12, find PA.

$$16.4 = x.x$$

$$\sqrt{64} = \sqrt{x^2}$$

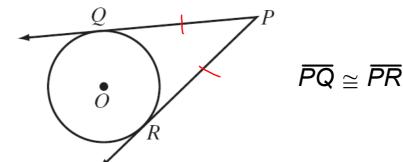
$$R = X$$

Mar 23-10:04 AM

Segments Formed by Two Tangents

Tangent segments drawn to a circle from an external point are congruent

"Hat Theorem"

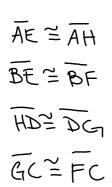


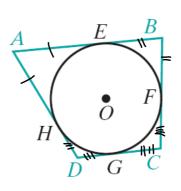
Mar 16-11:59 AM

Polygons Circumscribed about a Circle

Each side of the polygon is <u>tangent</u> to the circle

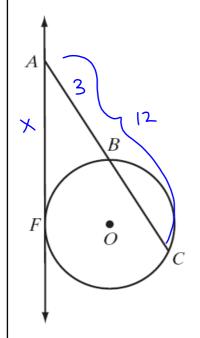
Circle O is inscribed in polygon ABCD

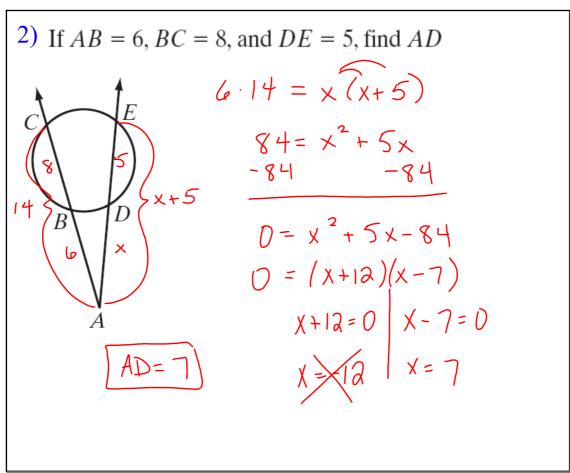




Mar 17-10:09 AM

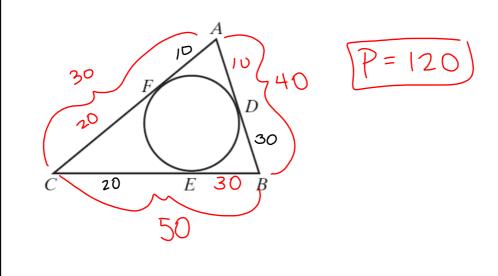
1) If AB = 3 and AC = 12, find AF.



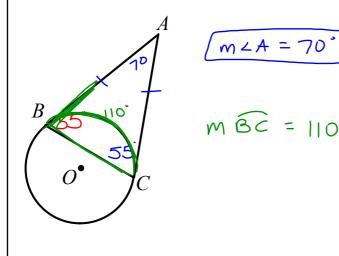


Mar 24-10:14 AM

3) ΔABC is circumscribed about circle O and D, E, and F are points of tangency.
 If AF = 10, CE = 20, and BD = 30
 Find the perimeter of ΔABC



4) \overline{AB} and \overline{AC} are tangents to circle O and chord \overline{BC} is drawn. If $m\angle ABC = 55$, what is the $m\angle A$? What is the $m\widehat{BC}$?



Mar 17-9:59 AM