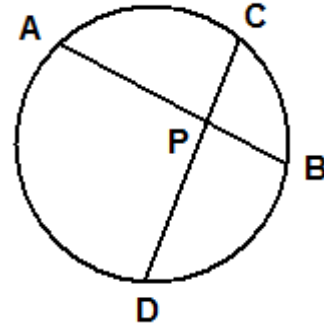


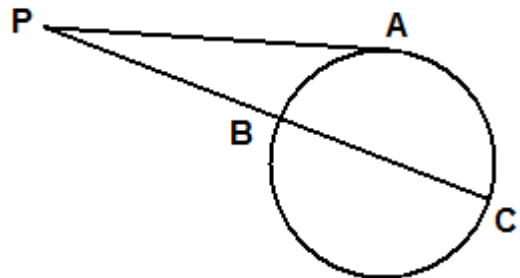
**Result #1 Chord-Chord Power Theorem**

If two chords of a circle intersect inside the circle, then the product of the measures of the segments of one chord is equal to the product of the measures of the segments of the other chord.



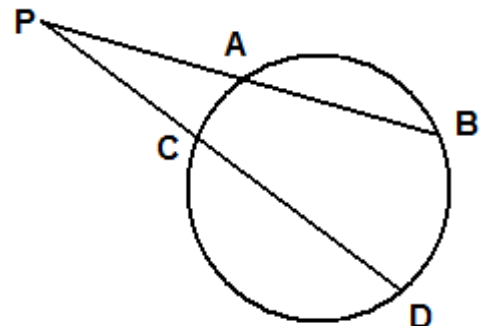
**Result #2 Tangent-Secant Power Theorem**

If a tangent segment and a secant segment are drawn from a point outside a circle, then the square of the measure of the tangent segment is equal to the product of the measures of the entire secant segment with its outside part.

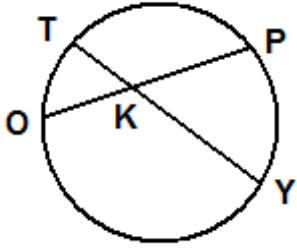


**Result #3 Secant-Secant Power Theorem**

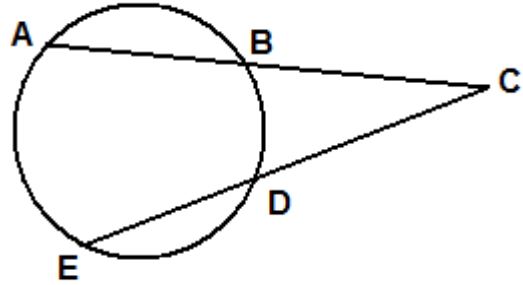
If two secant segments are drawn from a point outside a circle, then the product of the measures of one entire secant segment with its outside part is equal to the product of the other secant segment with its outside part.



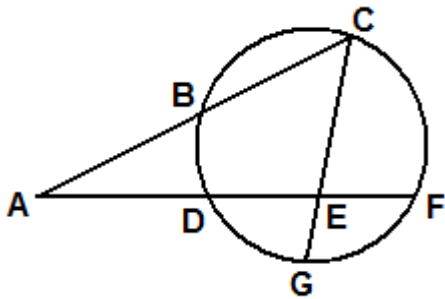
[ EX 1 ]  $TK = 2, KY = 16, KP = 2 * KO$ .  
Find the value of  $OP$ .



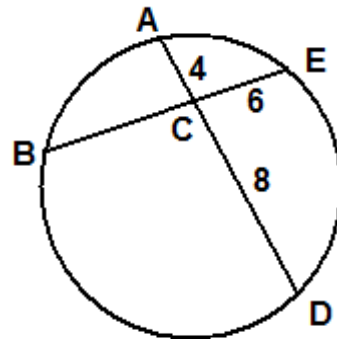
[ EX 2 ]  $CB = 9, BA = 11, CE = 18$ .  
Find the value of  $DE$ .



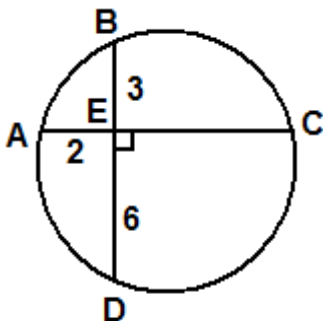
[ EX 3 ]  $AD = DE = EF$   
B is the midpoint of  $\overline{AC}$   
 $EG = 2, EC = 8$   
Find  $AB$ .



[ EX 4 ] Find  $BC$ .



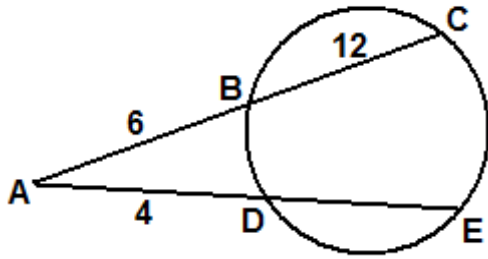
[ EX 5 ] Find  $CD$ .



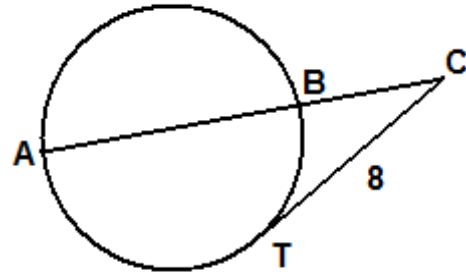
CP Geometry  
 "Power of a Point ... Part 2"

Name: \_\_\_\_\_

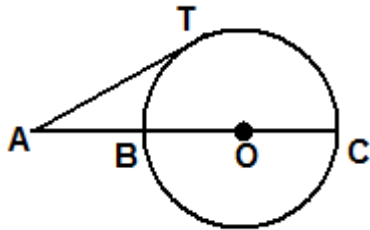
[ EX 6 ] Find DE.



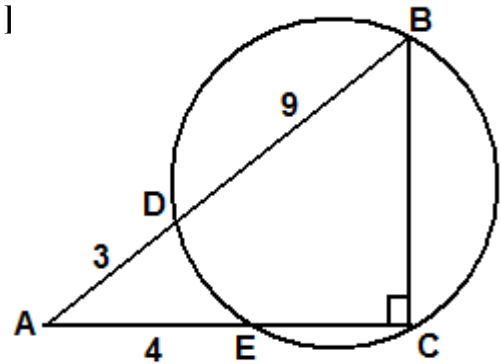
[ EX 7 ] T is a tangent point.  
 AC = 12  
 Find AB.



[ EX 8 ] T is a tangent point.  
 AT = 4, AC = 12  
 Find the area of the circle.



[ EX 9 ]

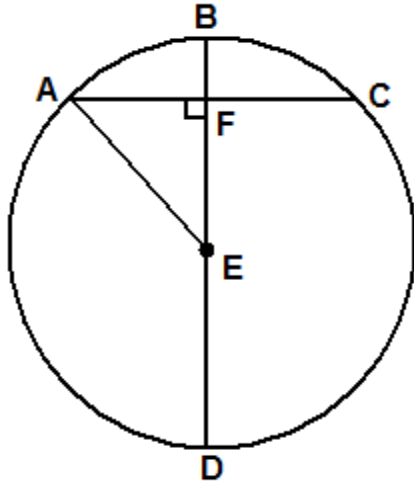


(A) Find the area of  $\triangle ABC$ .

(B) Find the value of DE.

(C) The area of the circle.

[ EX 10 ] Another proof of the Pythagorean Theorem!!!



[ EX 11 ] Find BE and CD.

