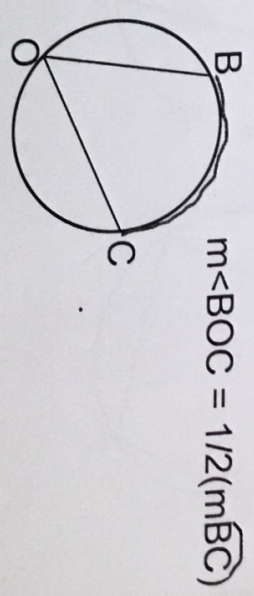


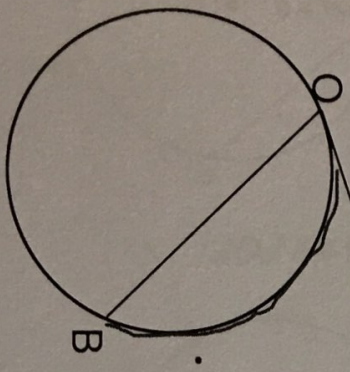
Angles of a circle:  
 Vertex on the center  
 Vertex on the circle  
 Vertex in the circle  
 Vertex outside the circle

2.) Inscribed angle: angle whose vertex is on the circle  
 $\angle BOC$  is half the intercepted arc



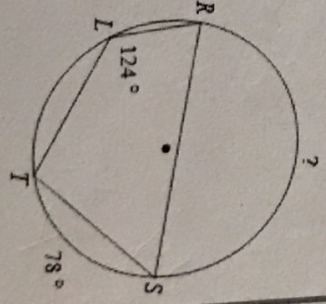
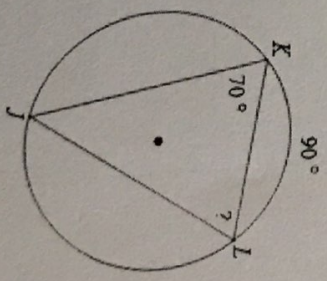
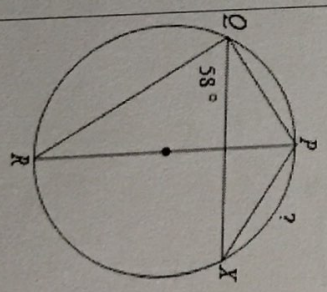
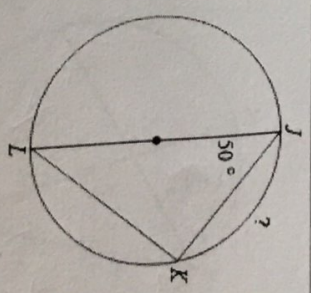
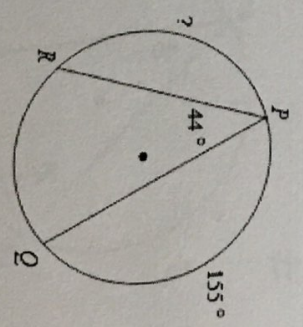
inscribed angle is made up of two chords

3.) tangent chord angle: like the inscribed angle it is  $\frac{1}{2}$  the intercepted arc

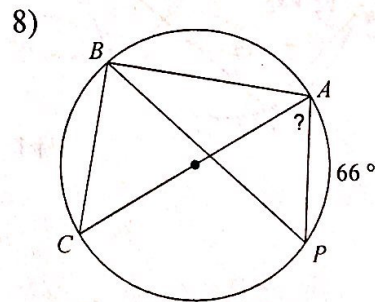
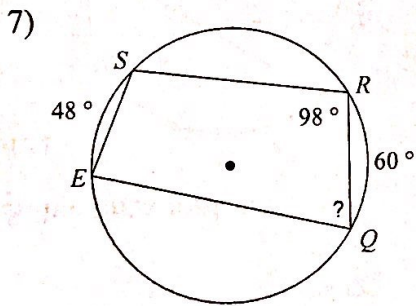
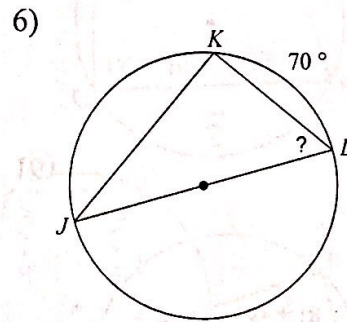
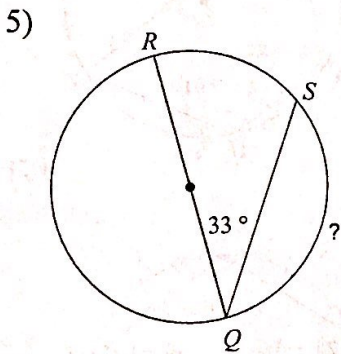
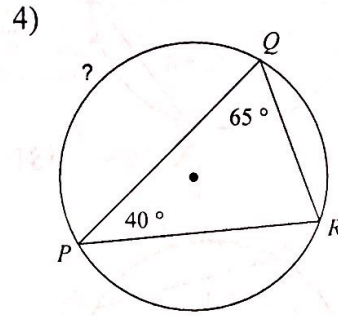
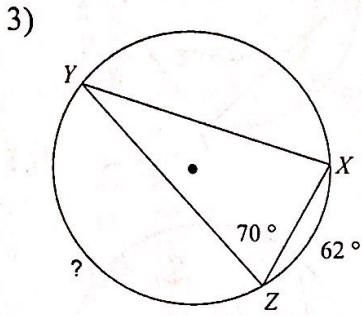
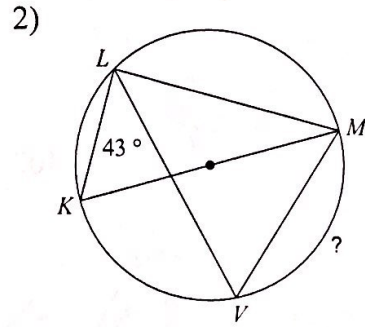
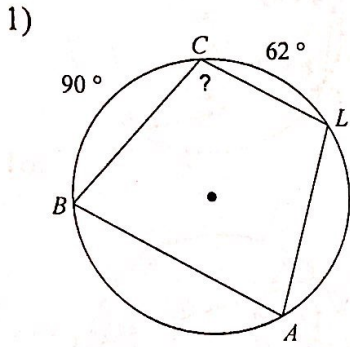


$m\angle BOC = \frac{1}{2}(m\widehat{BC})$

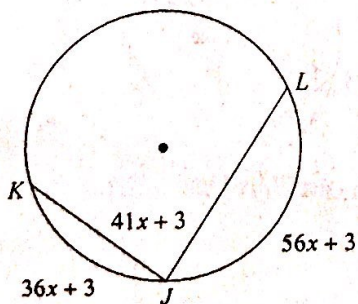
made from a tangent line and a chord



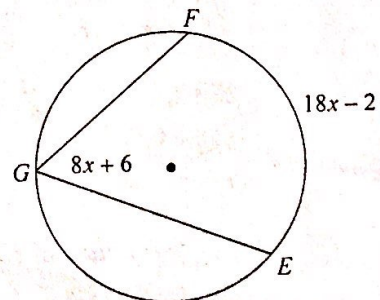
Find the measure of the arc or angle indicated.



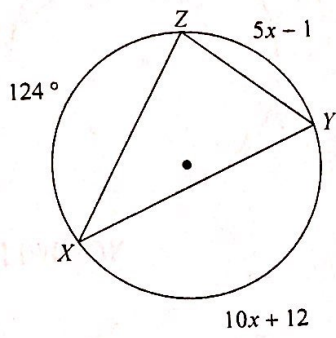
9) Find  $m\widehat{JK}$



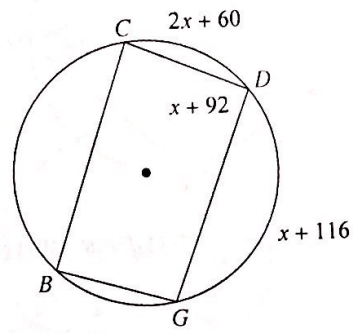
10) Find  $m\angle FGE$



11) Find  $m\widehat{YX}$

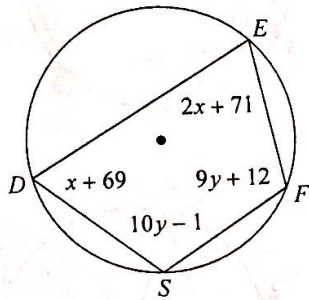


12) Find  $m\angle GDC$

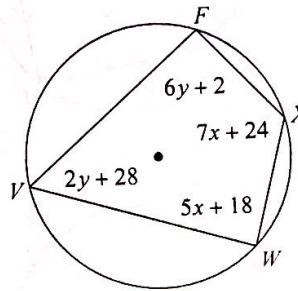


Solve for  $x$  and  $y$ .

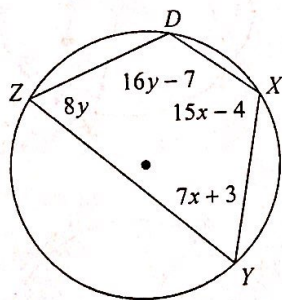
13)



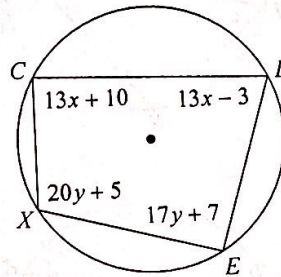
14)



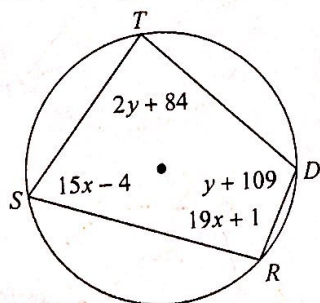
15)



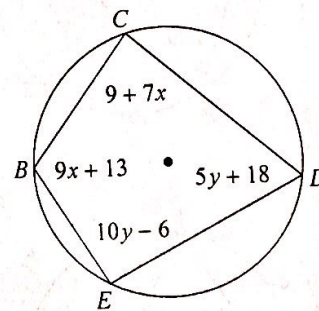
16)



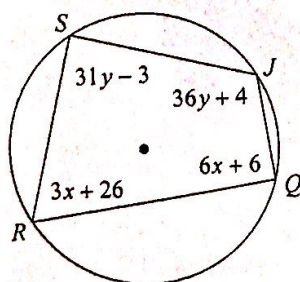
17)



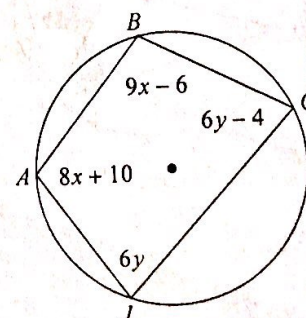
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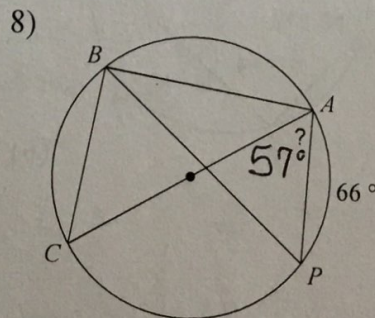
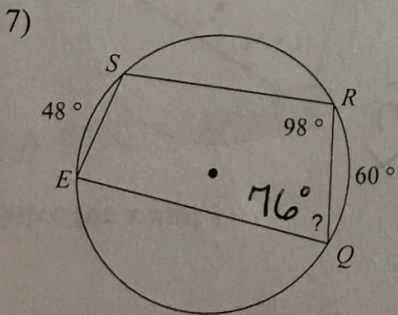
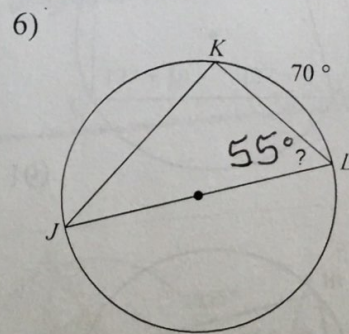
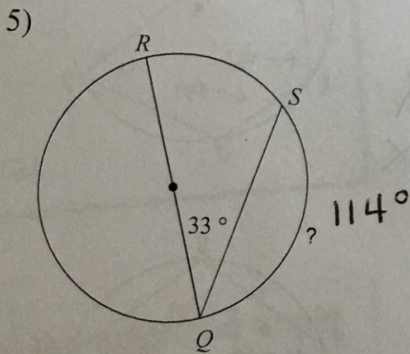
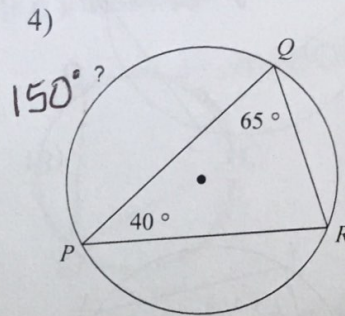
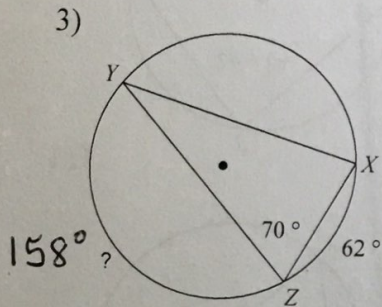
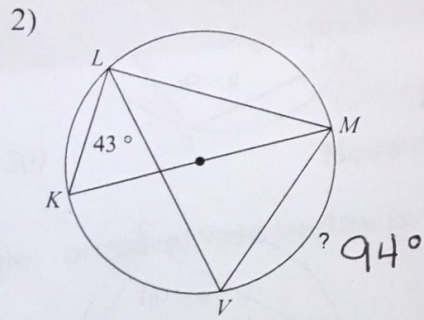
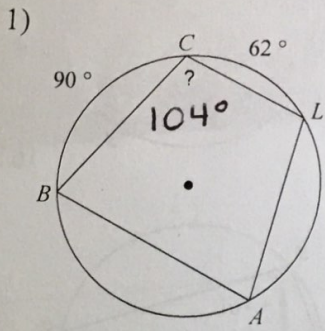
19)



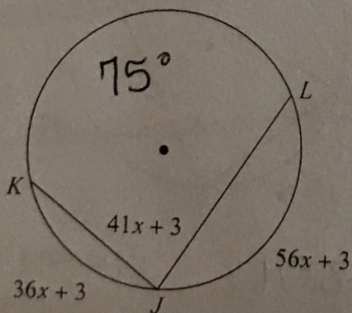
20)



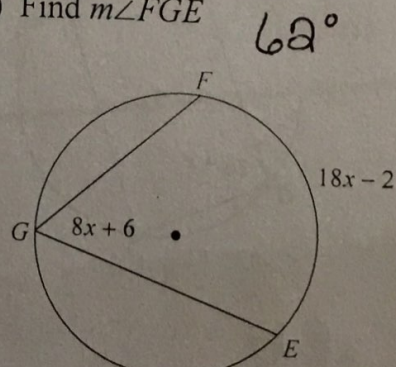
Find the measure of the arc or angle indicated.



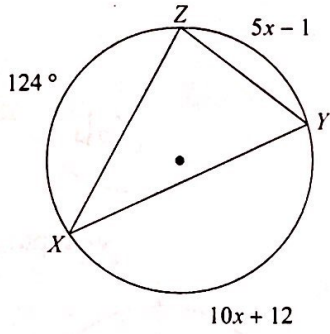
9) Find  $m\widehat{JK}$



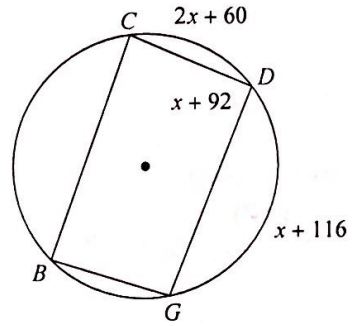
10) Find  $m\angle FGE$



11) Find  $m\widehat{YX}$   $162^\circ$



12) Find  $m\angle GDC$   $92^\circ$



Solve for  $x$  and  $y$ .

