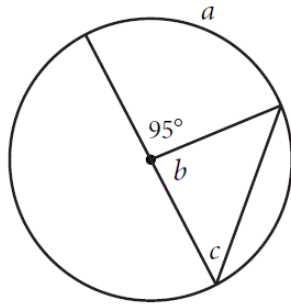


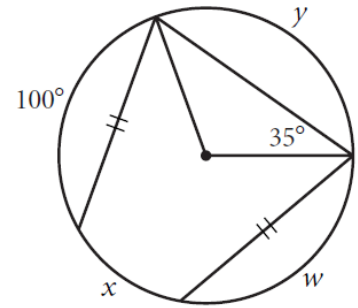
9.REV.1 ANGLES & ARCS OF A CIRCLE

Find each unknown angle or arc measure.

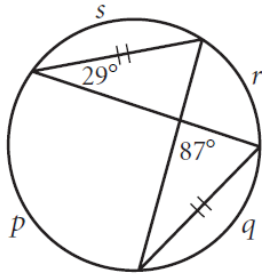
1. $a =$ _____
 $b =$ _____
 $c =$ _____



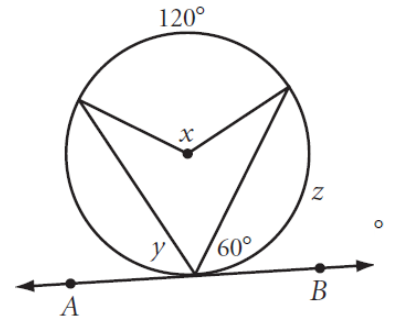
2. $w =$ _____
 $x =$ _____
 $y =$ _____



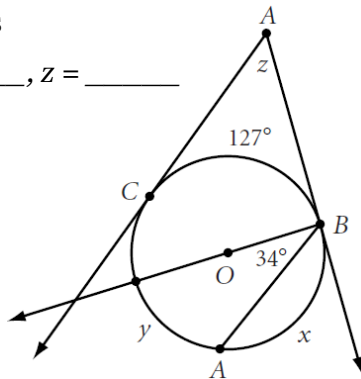
3. $p =$ _____
 $q =$ _____
 $r =$ _____
 $s =$ _____



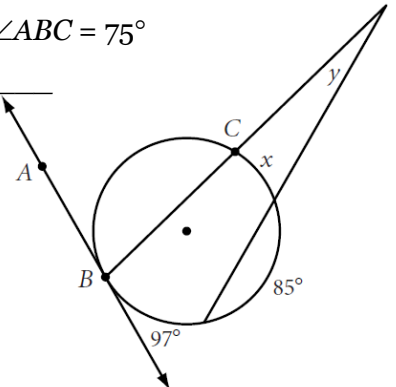
4. \overleftrightarrow{AB} is tangent
 $x =$ _____
 $y =$ _____
 $z =$ _____



5. \overleftrightarrow{AB} & \overleftrightarrow{AC} are tangents
 $x =$ _____, $y =$ _____, $z =$ _____



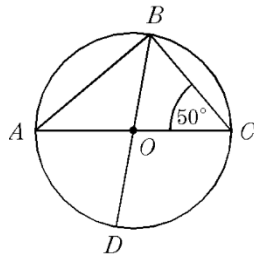
6. \overleftrightarrow{AB} is a tangent; $m\angle ABC = 75^\circ$
 $x =$ _____, $y =$ _____



7. Given: $\odot O$; $m\angle ACB = 50^\circ$

Find:

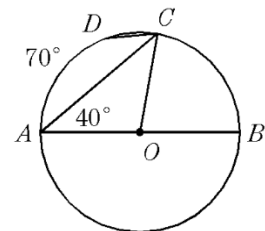
- $m\widehat{AB} =$ _____
 $m\angle BOC =$ _____
 $m\angle BAC =$ _____
 $m\widehat{AD} =$ _____
 $m\angle ABC =$ _____



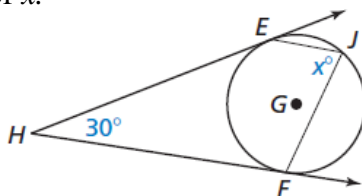
8. Given: $\odot O$; $m\angle BAC = 40^\circ$, $m\widehat{AD} = 70^\circ$

Find:

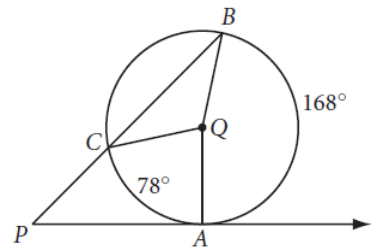
- $m\widehat{CB} =$ _____
 $m\angle BOC =$ _____
 $m\angle ACD =$ _____
 $m\widehat{CD} =$ _____
 $m\angle AOC =$ _____



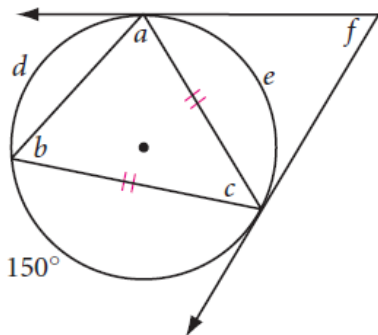
9. Find the value of x .



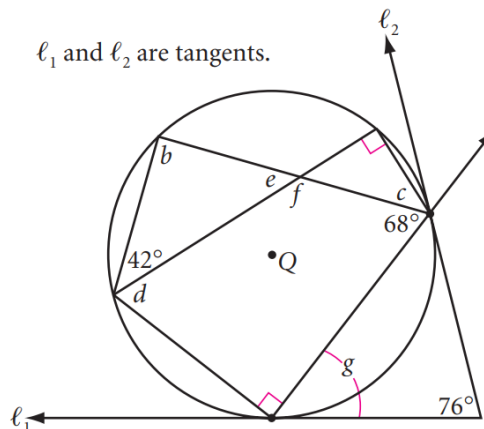
10. Find $m\angle P$.



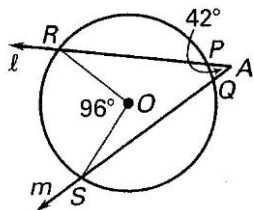
11. $a = \underline{\hspace{1cm}}$, $b = \underline{\hspace{1cm}}$, $c = \underline{\hspace{1cm}}$,
 $d = \underline{\hspace{1cm}}$, $e = \underline{\hspace{1cm}}$, $f = \underline{\hspace{1cm}}$



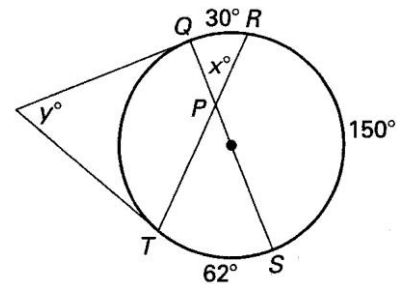
12. $b = \underline{\hspace{1cm}}$, $c = \underline{\hspace{1cm}}$, $d = \underline{\hspace{1cm}}$,
 $e = \underline{\hspace{1cm}}$, $f = \underline{\hspace{1cm}}$, $g = \underline{\hspace{1cm}}$



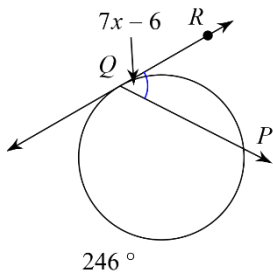
13. The secants ℓ & m intersect at point A and \widehat{PQ} & \widehat{RS} are the intercepted arcs. If $m\angle PAQ = 42^\circ$ and $m\angle ROS = 96^\circ$, find $m\widehat{PQ}$.



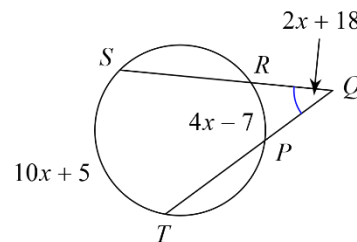
14. In the circle shown, \widehat{QS} & \widehat{RT} are intersecting chords. Find the values of x and y .



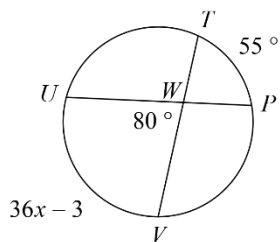
15. Find x .



16. Find x .



17. Find x .



18. Find x .

