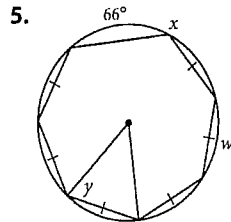
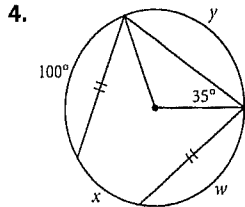
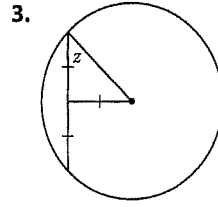
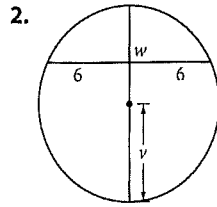
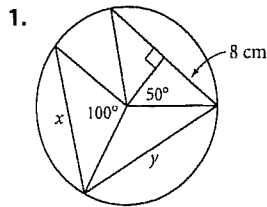


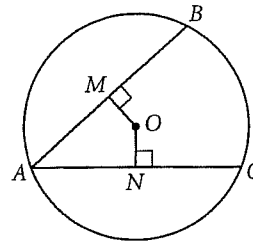
# WS • Review 6.1 – 6.3: Chords, Tangents, Arcs & Angels

## 6.1 Chord Properties

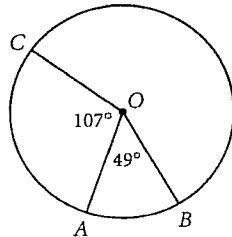
In Exercises 1–5, find each unknown or write “cannot be determined.”



6.  $\overline{AB} \cong \overline{AC}$ .  $\overline{AMON}$  is a \_\_\_\_\_  
Justify your answer.

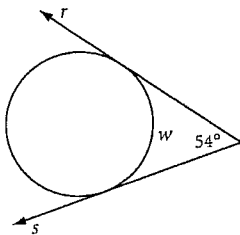


7.  $m\widehat{AB} =$  \_\_\_\_\_  
 $m\widehat{ABC} =$  \_\_\_\_\_  
 $m\widehat{BAC} =$  \_\_\_\_\_  
 $m\widehat{ACB} =$  \_\_\_\_\_

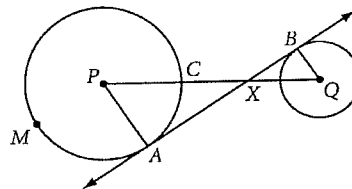


## 6.2 Tangent Properties

1. Rays  $r$  and  $s$  are tangents.  $w =$  \_\_\_\_\_

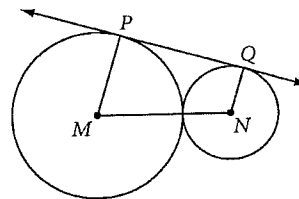


2.  $\overline{AB}$  is tangent to both circles and  $m\widehat{AMC} = 295^\circ$ .  $m\angle BQX =$  \_\_\_\_\_



3.  $\overline{PQ}$  is tangent to two externally tangent noncongruent circles,  $M$  and  $N$ .

- What kind of quadrilateral is  $MNQP$ ? Explain your reasoning.
- If circles  $M$  and  $N$  are congruent, what is  $MNQP$ ? Explain why.



4. Circle  $A$  has diameter 16.4 cm. Circle  $B$  has diameter 6.7 cm.
- If  $A$  and  $B$  are internally tangent, what is the distance between their centers?
  - If  $A$  and  $B$  are externally tangent, what is the distance between their centers?

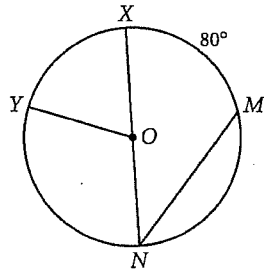
### 6.3 Arcs and Angles

1.  $m\widehat{XM} = 80^\circ$

$m\angle XNM = \underline{\hspace{2cm}}$

$m\widehat{XN} = \underline{\hspace{2cm}}$

$m\widehat{MN} = \underline{\hspace{2cm}}$

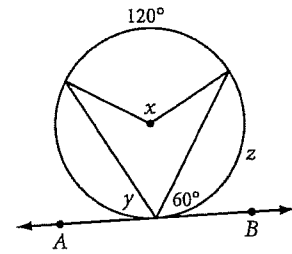


2.  $\overleftrightarrow{AB}$  is a tangent.

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$

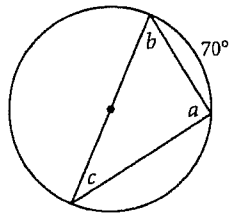
$z = \underline{\hspace{2cm}}$



3.  $a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

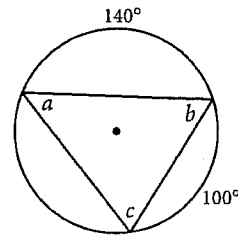
$c = \underline{\hspace{2cm}}$



4.  $a = \underline{\hspace{2cm}}$

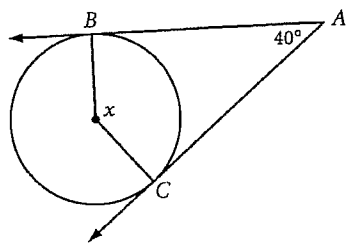
$b = \underline{\hspace{2cm}}$

$c = \underline{\hspace{2cm}}$



5.  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{AC}$  are tangents.

$x = \underline{\hspace{2cm}}$



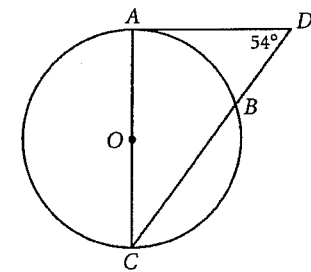
6.  $\overleftrightarrow{AD}$  is a tangent.  $\overleftrightarrow{AC}$  is a diameter.

$m\angle A = \underline{\hspace{2cm}}$

$m\widehat{AB} = \underline{\hspace{2cm}}$

$m\angle C = \underline{\hspace{2cm}}$

$m\widehat{CB} = \underline{\hspace{2cm}}$

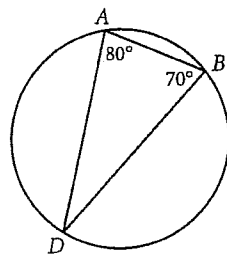


7.  $m\widehat{AD} = \underline{\hspace{2cm}}$

$m\angle D = \underline{\hspace{2cm}}$

$m\widehat{AB} = \underline{\hspace{2cm}}$

$m\widehat{DAB} = \underline{\hspace{2cm}}$

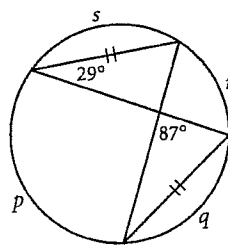


8.  $p = \underline{\hspace{2cm}}$

$q = \underline{\hspace{2cm}}$

$r = \underline{\hspace{2cm}}$

$s = \underline{\hspace{2cm}}$



9. Find the lettered angle and arc measures.

$a = \underline{\hspace{2cm}}$

$d = \underline{\hspace{2cm}}$

$g = \underline{\hspace{2cm}}$

$k = \underline{\hspace{2cm}}$

$p = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$

$e = \underline{\hspace{2cm}}$

$h = \underline{\hspace{2cm}}$

$m = \underline{\hspace{2cm}}$

$c = \underline{\hspace{2cm}}$

$f = \underline{\hspace{2cm}}$

$j = \underline{\hspace{2cm}}$

$n = \underline{\hspace{2cm}}$

