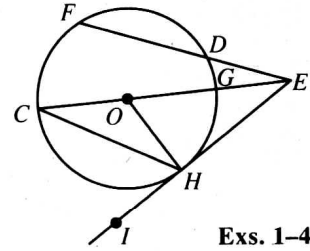


Circles

For use after Chapter 9

\overleftrightarrow{EH} is tangent to $\odot O$. Complete.

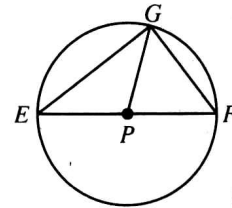
1. $m\angle OHI =$ _____
2. If $m\widehat{CH} = 130$, then $m\angle CHI =$ _____.
3. If $m\widehat{CH} = 120$, then $m\angle CEH =$ _____.
4. If $m\widehat{CF} = 80$ and $m\widehat{DG} = 20$, then $m\angle FEC =$ _____.



Exs. 1-4

In $\odot P$, $m\angle FPG = 75$. Complete.

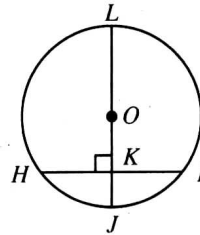
5. $m\widehat{FG} =$ _____
6. $m\widehat{EGF} =$ _____
7. $m\widehat{GE} =$ _____
8. $m\widehat{EFG} =$ _____



Exs. 5-8

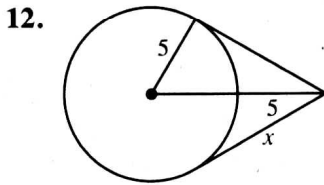
In $\odot O$, $\overline{OJ} \perp \overline{HI}$ and $OK = 3$. Complete.

9. If $HI = 8$, then $HK =$ _____.
10. If $KJ = 2$, then $LJ =$ _____.
11. If $m\widehat{HI} = 70$, then $m\widehat{HJ} =$ _____.

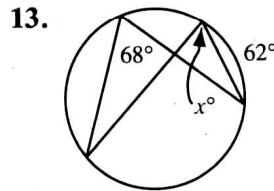


Exs. 9-11

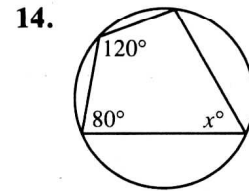
Chords, secants, and tangents are shown. Find the indicated values.



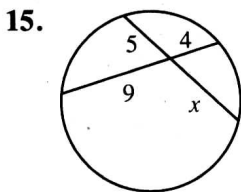
$x =$ _____



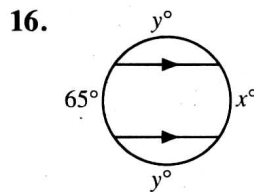
$x =$ _____



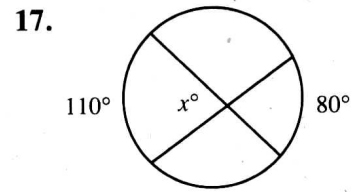
$x =$ _____



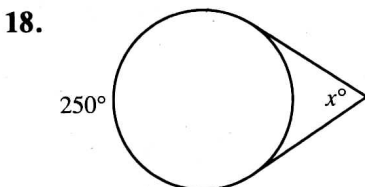
$x =$ _____



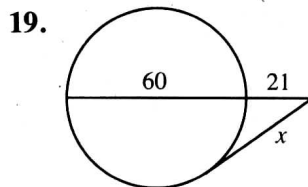
$x =$ _____; $y =$ _____



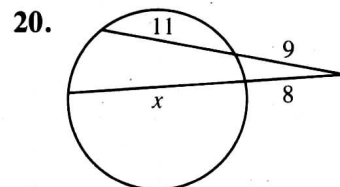
$x =$ _____



$x =$ _____



$x =$ _____



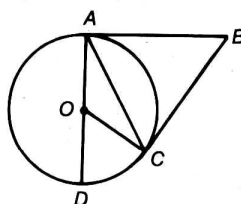
$x =$ _____

Practice 37

Chapter 9 Practice

In $\odot O$, give an example of each of the following.

1. diameter _____
2. radius _____
3. chord _____
4. tangent _____



Exs. 1-10

If $AB = 5$ and $m\widehat{AC} = 110$, find the following.

5. $m\angle AOC =$ _____
6. $m\angle ADC =$ _____
7. $m\angle ACD =$ _____
8. $m\angle CAB =$ _____
9. $m\angle ABC =$ _____
10. $BC =$ _____

In Exercises 11-16, \overline{KL} is tangent to $\odot O$. Complete the following.

11. If $m\widehat{KQ} = 110$ and $m\widehat{PM} = 130$, then $m\angle QRK =$ _____.
12. If $m\widehat{KN} = 100$ and $m\widehat{KP} = 160$, then $m\angle KLP =$ _____.
13. If $m\widehat{QP} = 50$ and $m\widehat{MN} = 20$, then $m\angle QLP =$ _____.
14. If $PR = 6$, $RK = 8$, and $MR = 12$, then $QR =$ _____.
15. If $KL = 12$ and $PL = 18$, then $NL =$ _____.
16. If $QM = 5$, $ML = 3$, and $NL = 4$, then $PN =$ _____.

11)	
12)	
13)	
14)	
15)	
16)	