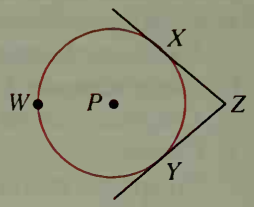
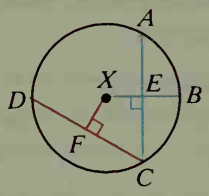
Lines $\overleftrightarrow{ZX}$ and $\overleftrightarrow{ZY}$ are tangent to $\odot P$.



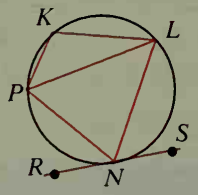
6. $\overline{PX}$, if drawn, would be ___? to $\overleftrightarrow{XZ}$. 9–2
7. If the radius of $\odot P$ is 6 and $XZ = 8$, then $PZ =$ ___?.
8. If $m\angle Z = 90$ and $XZ = 13$, then $XY =$ ___?.
9. If $m\angle XPY = 100$, then $m\overset{\frown}{XY} =$ ___?. 9–3
10. If $m\overset{\frown}{XW} = 135$ and $m\overset{\frown}{WY} = 125$, then $m\overset{\frown}{XWY} =$ ___?.
11. If $\overset{\frown}{XW} \cong \overset{\frown}{WY}$, then $\angle XPW \cong$ ___?.

In $\odot X$, $m\overset{\frown}{AC} = 120$.

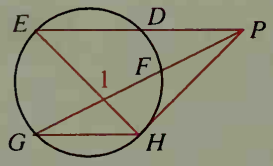


12. $m\overset{\frown}{AB} =$ ___? 9–4
13. If $\overline{AC} \cong \overline{CD}$, then $m\overset{\frown}{CD} =$ ___?.
14. If $XE = 5$ and $AC = 24$, then the radius = ___?.
15. If $\overline{AC} \cong \overline{DC}$, state the theorem that allows you to deduce that $XE = XF$.

$\overleftrightarrow{RS}$ is tangent to the circle at N.

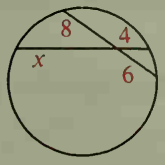


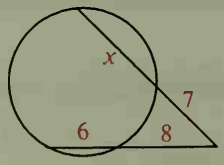
16. If $m\angle K = 105$, then $m\angle PNL =$ ___?. 9–5
17. If $m\overset{\frown}{PN} = 100$, then $m\angle PLN =$ ___? and $m\angle PNR =$ ___?.
18. If $m\angle K = 110$, then $m\overset{\frown}{PNL} =$ ___? and $m\overset{\frown}{PL} =$ ___?.

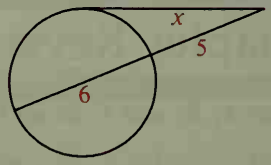


19. If $m\overset{\frown}{EF} = 120$ and $m\overset{\frown}{GH} = 90$, then $m\angle 1 =$ ___?. 9–6
20. If $m\overset{\frown}{EG} = 100$ and $m\overset{\frown}{DF} = 40$, then $m\angle EPG =$ ___?.
21. If $\overline{PH}$ is a tangent, $m\overset{\frown}{GH} = 90$ and $m\angle GPH = 25$, then $m\overset{\frown}{FH} =$ ___?.

Chords, secants, and a tangent are shown. Find the value of x.

22. 

23. 

24. 

9–7