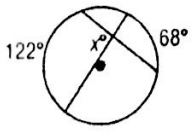
9 **Chapter Nine Review** *(continued)*

12. Find x. **12.** _____

F. 122 H. 68

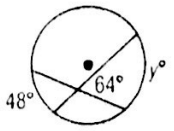
G. 95 J. 61



13. Find y. **13.** _____

A. 16 C. 80

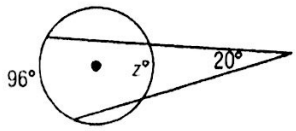
B. 56 D. 112



14. Find z. **14.** _____

F. 38 H. 58

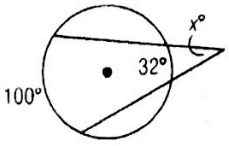
G. 56 J. 76



15. Find x. **15.** _____

A. 132 C. 66

B. 68 D. 34



18. Find the radius of the circle whose equation is $(x + 3)^2 + (y - 7)^2 = 289$. **18.** _____

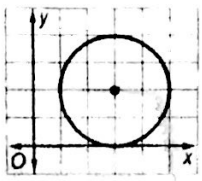
F. 7 G. 17 H. 34 J. 289

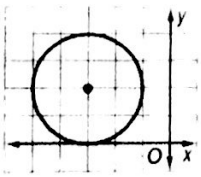
19. Find the equation of a circle with center (0 , 0) and radius 4. **19.** _____

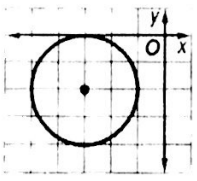
A. $x^2 + y^2 = 4$ C. $(x - 4)^2 + (y - 4)^2 = 16$

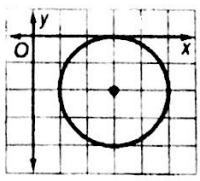
B. $x^2 + y^2 = 16$ D. $4x + 4y = 16$

20. Identify the graph of $(x - 3)^2 + (y + 2)^2 = 4$. **20.** _____

F. 

G. 

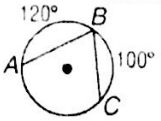
H. 

J. 

9. Find $m\angle ABC$. **9.** _____

A. 50 C. 90

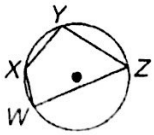
B. 70 D. 140



10. If $m\angle X = 126$, find $m\angle Z$. **10.** _____

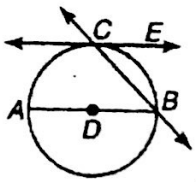
F. 54 H. 90

G. 63 J. 126



For Questions 1–3, use ⊙D.

18. Name a radius.



19. Name a chord that is not a diameter.

20. Name a secant.

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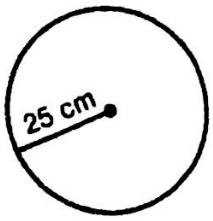
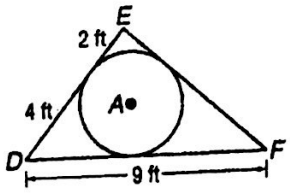
21.



C = _____

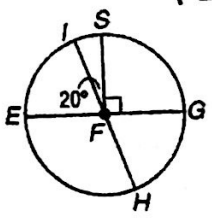
22. The circumference of a steering wheel of a car is 20π inches. What is the radius of the steering wheel?

23. If $\overline{DE}$, $\overline{EF}$, and $\overline{FD}$ are tangent to $\odot A$, find EF.

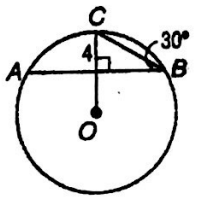


24. Find $m\overset{\frown}{GH}$ and its arc length

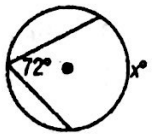
r = 8



25. Detrmine the radius of $\odot O$.

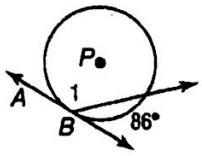


26. Find x.

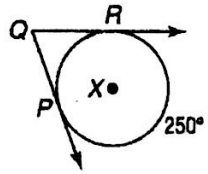


27. In $\odot X$, chords $\overline{AB}$ and $\overline{CD}$ are congruent and $\overline{AB}$ is 9 units from X. Find the distance from $\overline{CD}$ to X.

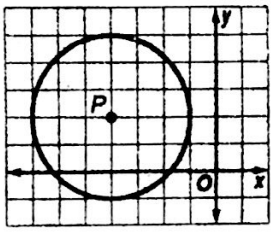
28. If $\overline{AB}$ is tangent to $\odot P$ at B, find $m\angle 1$.



29. Find $m\angle PQR$ if $\overline{QP}$ and $\overline{QR}$ are tangent to $\odot X$.

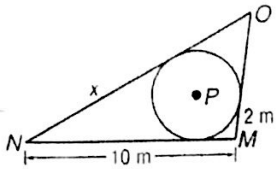


34. Find the equation of $\odot P$.



30. If $\overline{MN}$, $\overline{NO}$, and $\overline{MO}$ are tangent to $\odot P$, find x.

A. 2 m
B. 5 m
C. 6 m
D. 8 m



31. Draw a picture of a radius bisecting a chord. What angle do they make?

32. Find the center of the circle whose equation is $(x + 15)^2 + (y - 20)^2 = 100$.

33. Find the equation of a circle whose center is at $(-1, 5)$ and radius is 8.

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