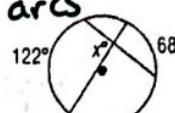
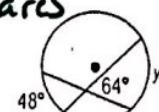


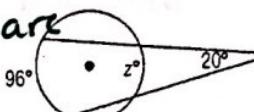
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Chapter Nine  
Review

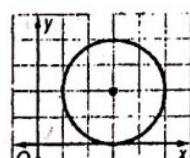
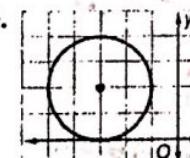
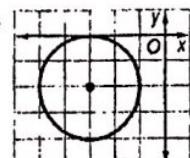
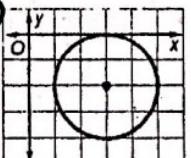
(continued)

- Inside**
12. Find  $x$ . The angle equals  $\frac{1}{2}$  the sum of the arcs  
 F. 122       $x = \frac{1}{2}(68 + 122)$       H. 68  
 G. 95       $x = 95$       J. 61
- 
13. Find  $y$ . The angle equals  $\frac{1}{2}$  the sum of the arcs  
 A. 16       $64 = \frac{1}{2}(48 + y)$       C. 80  
 B. 56       $48 = \frac{1}{2}(x_2 - x_1)$       D. 112  

$$\begin{aligned} 64 &= \frac{1}{2}(48 + y) \\ 128 &= 48 + y \\ 80 &= y \end{aligned}$$

14. Find  $z$ . The angle equals  $\frac{1}{2}$  the big arc - small arc  
 F. 38       $20 = \frac{1}{2}(96 - z)$       H. 58  
 G. 56       $z = \frac{1}{2}(x_2 - x_1)$       J. 76  

$$\begin{aligned} 20 &= \frac{1}{2}(96 - z) \\ 40 &= 96 - z \\ z &= 56 \end{aligned}$$

15. Find  $x$ . The angle equals  $\frac{1}{2}$  big arc minus small arc  
 A. 132       $x = \frac{1}{2}(100 - 32)$       C. 66  
 B. 68       $x = 34$       D. 34
18. Find the radius of the circle whose equation is  $(x + 3)^2 + (y - 7)^2 = 289$   
 F. 7      G. 17      H. 34       $(x-h)^2 + (y-k)^2 = r^2$   

$$\begin{aligned} 289 &= r^2 \\ \sqrt{289} &= r \\ 17 &= r \end{aligned}$$
19. Find the equation of a circle with center  $(0, 0)$  and radius  $r$ .  
 A.  $x^2 + y^2 = 4$       C.  $(x - 4)^2 + (y - 4)^2 = 16$   
 B.  $x^2 + y^2 = 16$       D.  $(x - 0)^2 + (y - 0)^2 = r^2$   

$$\begin{aligned} (x-0)^2 + (y-0)^2 &= r^2 \\ (x-0)^2 + (y-0)^2 &= 16 \end{aligned}$$
20. Identify the graph of  $(x - 3)^2 + (y + 2)^2 = 4$ . center = (3, -2) r = 2      20. J
- F.  G.  H.  J. 
9. Find  $m\angle ABC$ .  
 A. 50      C. 90  
 B. 70      D. 140
10. If  $m\angle X = 126$ , find  $m\angle Z$ .  
 F. 54      H. 90  
 G. 63      J. 126
- For Questions 1-3, use  $\odot D$ .
18. Name a radius.  $\overline{DB}$  or  $\overline{DA}$
19. Name a chord that is not a diameter.  $\overline{CB}$
20. Name a secant.  $\overleftarrow{CB}$
- Outside**
12. G. 95
13. C. 80
14. G. 56
15. D. 34
18. G. 17
19. B
9. B. 70
10. 54, F
- $180 - 126 =$
- 
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