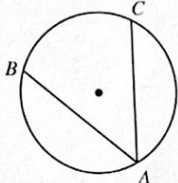


Inscribed Angles

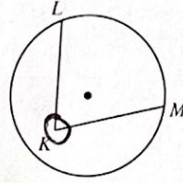
State if each angle is an inscribed angle. If it is, name the angle and the intercepted arc.

1)



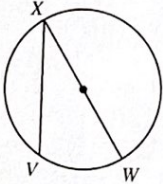
Yes $\angle BAC$, \widehat{BC}

2)



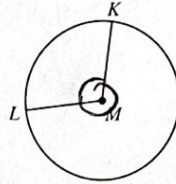
No

3)



Yes $\angle VXW$, \widehat{VW}

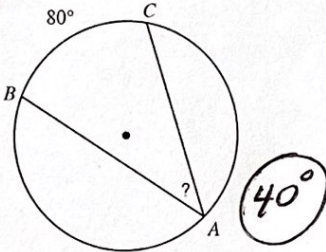
4)



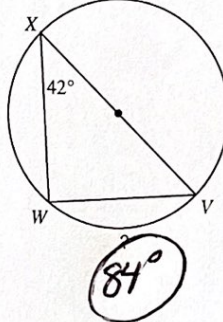
No

Find the measure of the arc or angle indicated.

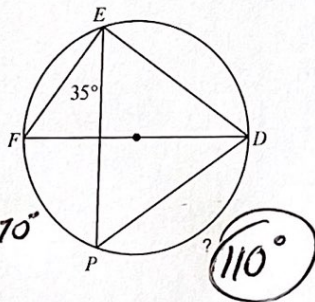
5)



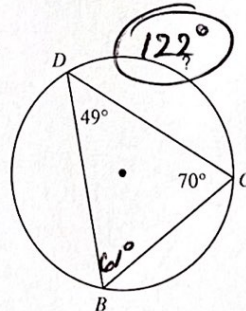
6)



7)

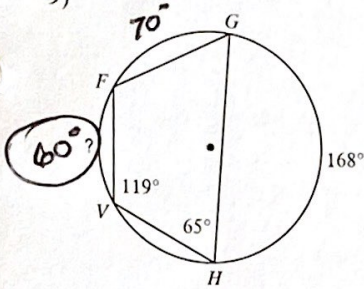


8)



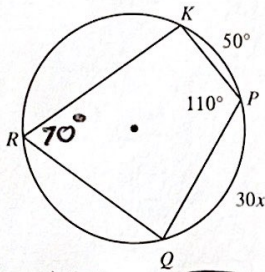
$$180 - 70 - 49 = 61^\circ$$

9)



Solve for x.

11)



$$50 + 30x = 140$$

$$30x = 90$$

$x = 3$

Find the measure of the arc or angle indicated.

13) Find $m\angle NLM$

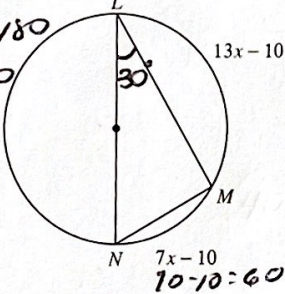
30°

$$13x - 10 + 7x - 10 = 180$$

$$20x - 20 = 180$$

$$20x = 200$$

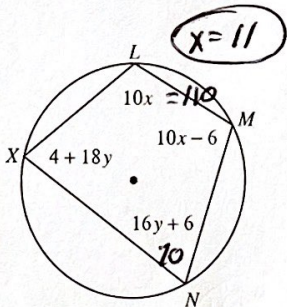
$$x = 10$$



$$10 - 10 = 0$$

Solve for x and y.

15)



$$10x + 16y + 6 = 180$$

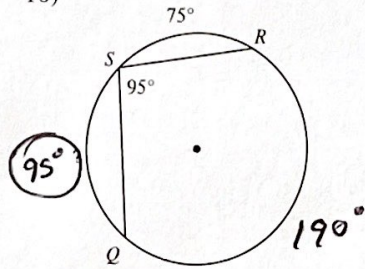
$$-(10x + 18y - 2 = 180)$$

$$-2y + 8 = 0$$

$$-2y = -8$$

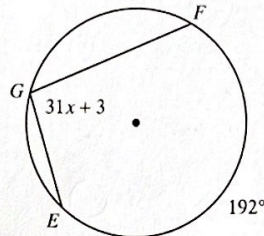
$y = 4$

10)



$$360 - 190 - 75 = 95$$

12)



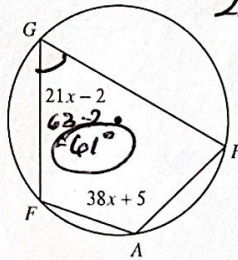
$$2(31x + 3) = 192$$

$$62x + 6 = 192$$

$$62x = 186$$

$x = 3$

14) Find $m\widehat{FGH}$



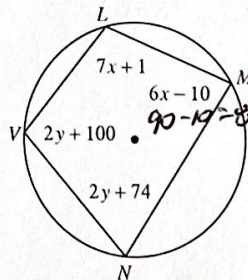
$$21x - 2 + 38x + 5 = 180$$

$$59x + 3 = 180$$

$$59x = 177$$

$$x = 3$$

16)



$$2y + 100 = 100$$

$y = 0$

$$2y + 6x + 90 = 180$$

$$-(2y + 7x + 75 = 180)$$

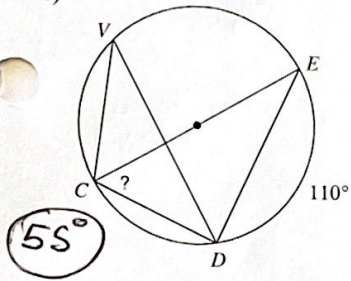
$$-x + 15 = 0$$

$$-2-$$

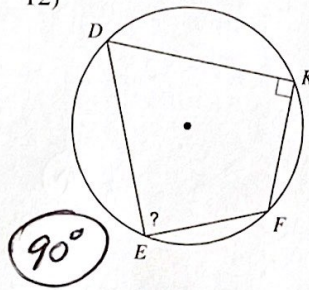
$x = 15$

Find the measure of the arc or angle indicated.

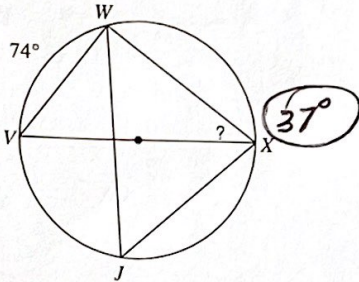
11)



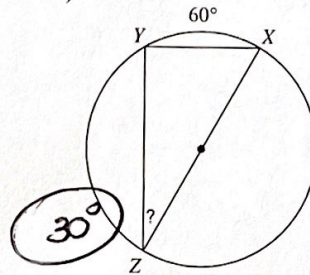
12)



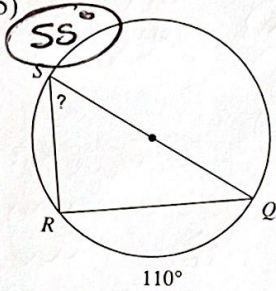
13)



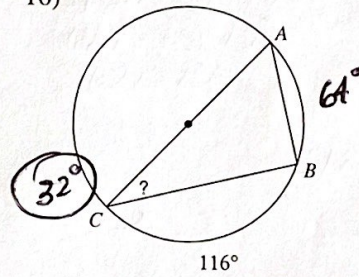
14)



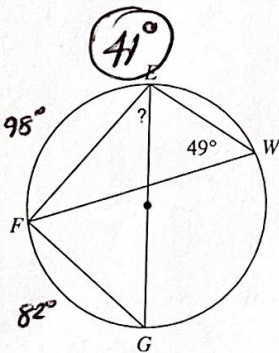
15)



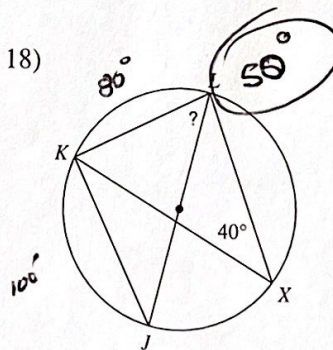
16)



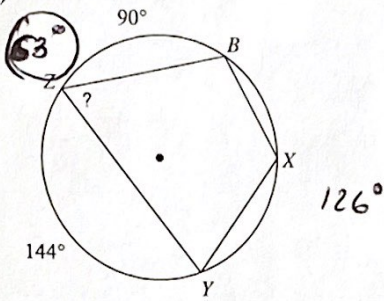
17)



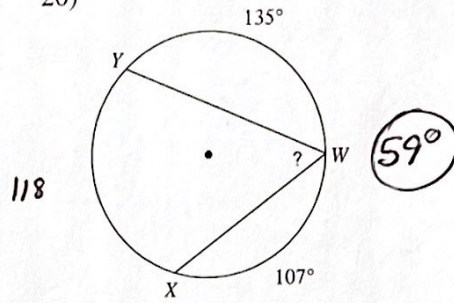
18)



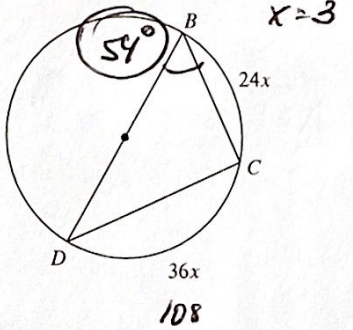
19)



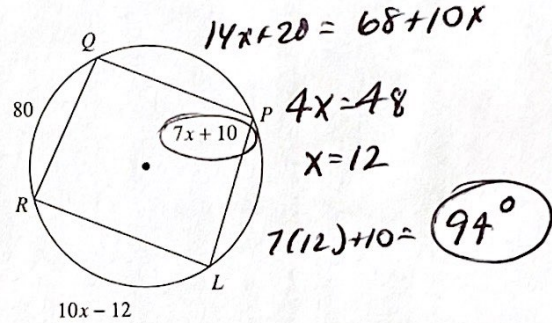
20)



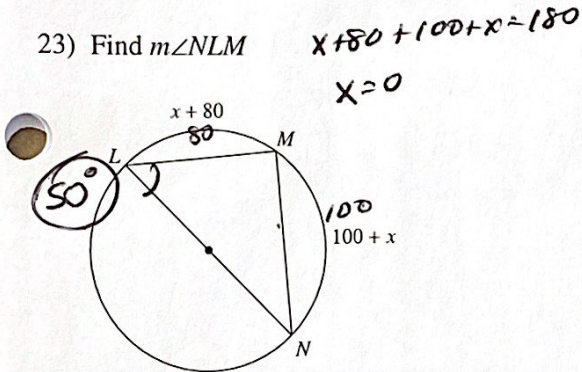
21) Find $m\angle DBC$



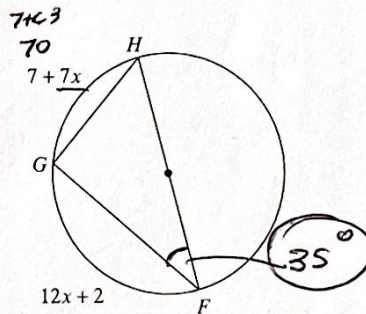
22) Find $m\angle LPQ$



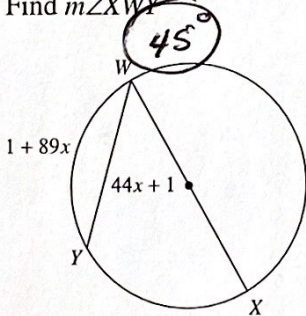
23) Find $m\angle NLM$



24) Find $m\angle HFG$



25) Find $m\angle XWY$



$$7 + 7x + 12x + 2 = 180$$

$$19x + 9 = 180$$

$$19x = 171$$

$$x = 9$$

$$1 + 89x + 2(44x + 1) = 180$$

$$1 + 89x + 88x + 2 = 180$$

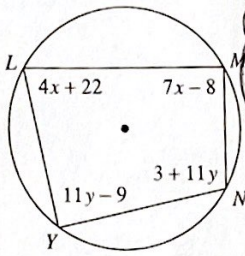
$$177x + 3 = 180$$

$$177x = 177$$

$$x = 1$$

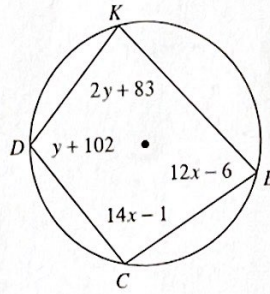
Solve for x and y .

26)



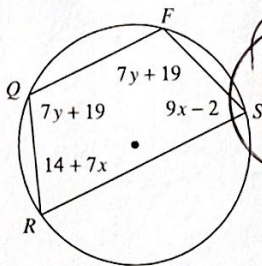
$x = 14$
 $y = 9$

27)



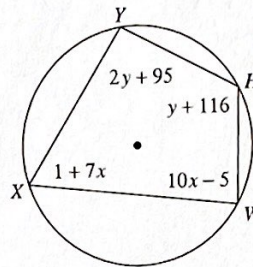
$x = 7$
 $y = 0$

28)



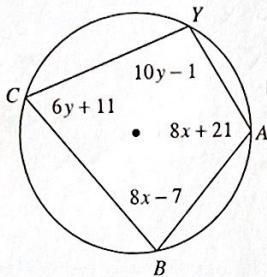
$x = 8$
 $y = 13$

29)



$x = 9$
 $y = 0$

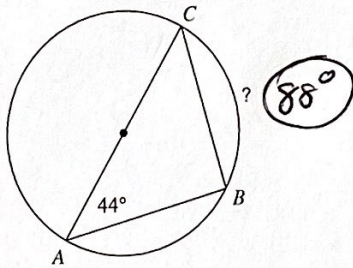
30)



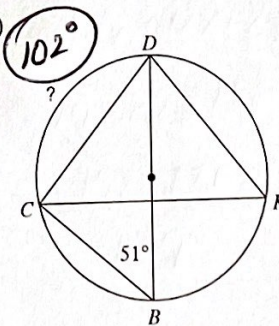
$x = 11$
 $y = 10$

Find the measure of the arc or angle indicated.

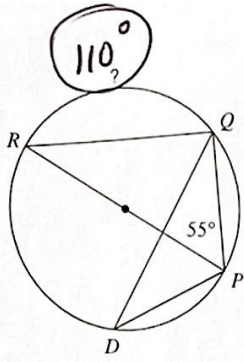
31)



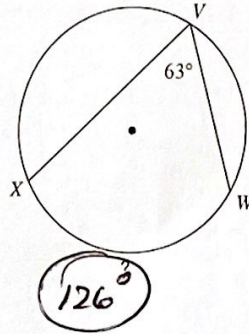
32)



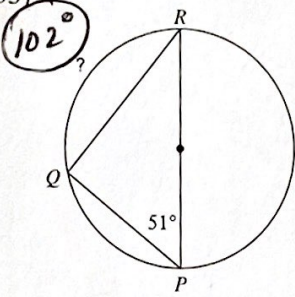
33)



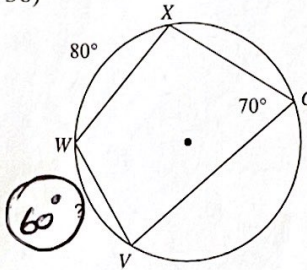
34)



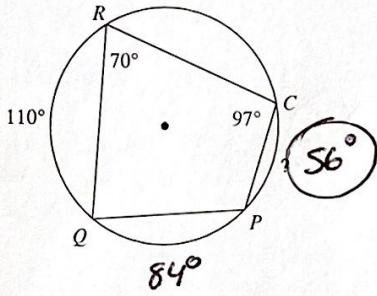
35)



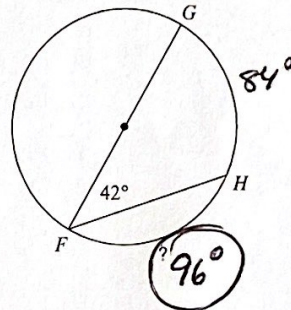
36)



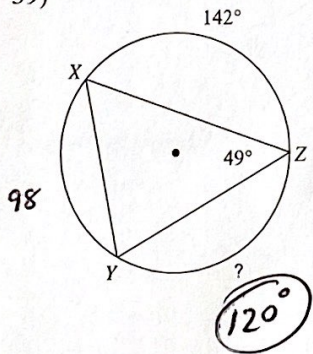
37)



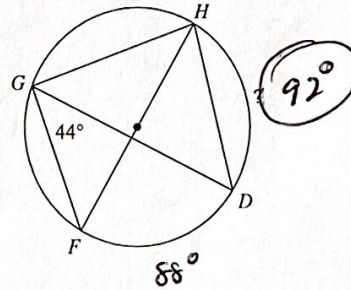
38)



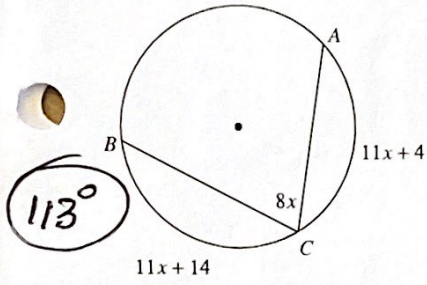
39)



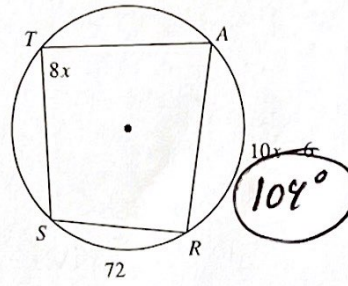
40)



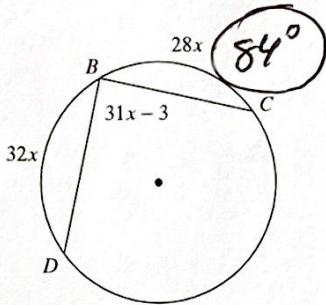
41) Find $m\widehat{CB}$



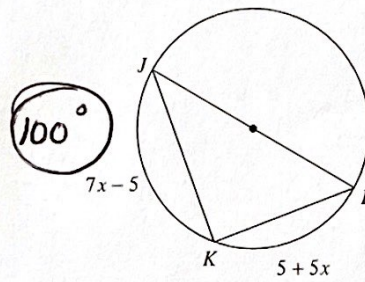
42) Find $m\widehat{AR}$



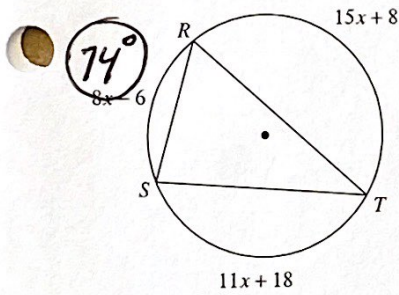
43) Find $m\widehat{BC}$



44) Find $m\widehat{KJ}$

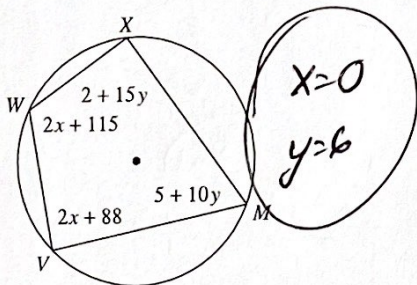


45) Find $m\widehat{SR}$

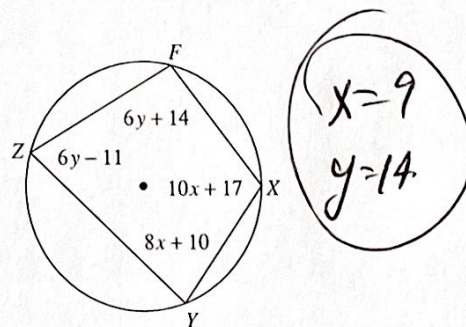


Solve for x and y .

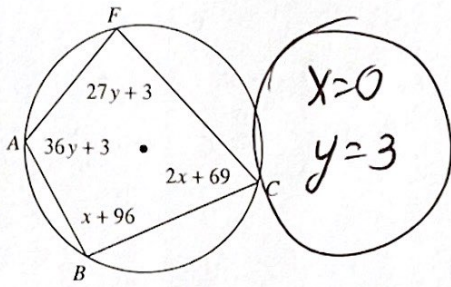
46)



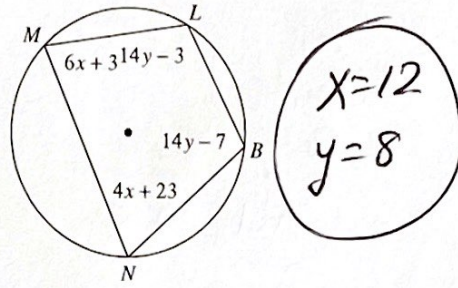
47)



48)



49)



50)

