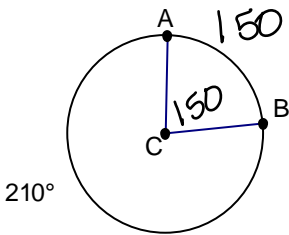


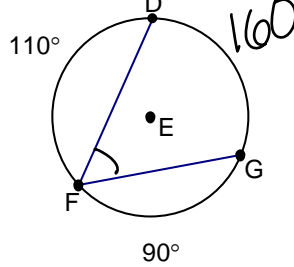
1. Find  $m\angle ACB$ .



$$360 - 210 = 150$$

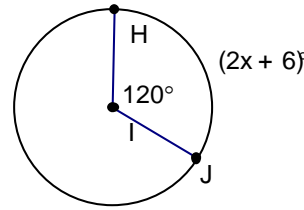
$$\angle ACB = 150^\circ$$

2. Find  $m\angle DFG$ .



$$\angle DFG = 80^\circ$$

3. Solve for x.

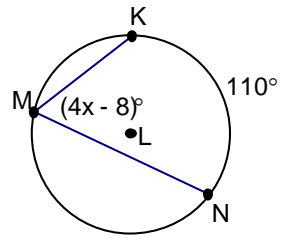


$$2x + 6 = 120$$

$$2x = 114$$

$$x = 57$$

4. Solve for x.

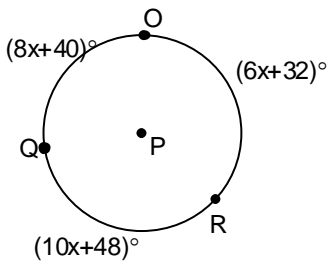


$$4x - 8 = 55$$

$$4x = 63$$

$$x = 15.75$$

5. Find  $m\widehat{OQ}$



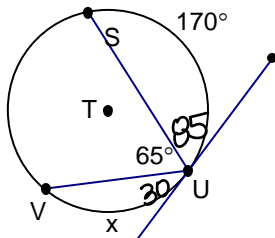
$$8x + 40 + 10x + 48 + 6x + 32 = 360$$

$$24x + 120 = 360$$

$$24x = 240$$

$$x = 10 \quad \widehat{OQ} = 120^\circ$$

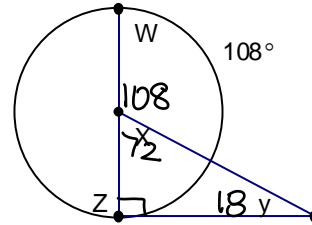
6. Solve for x.



$$x = 30 \cdot 2$$

$$x = 60^\circ$$

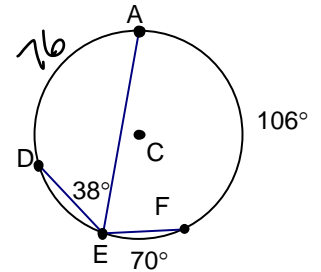
7. Solve for y.



$$y = 18^\circ$$

8. Find:

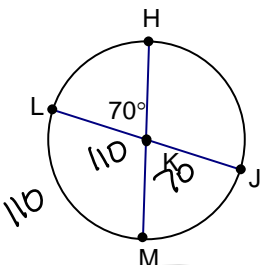
$m\widehat{AD}$  and  $m\widehat{DE}$



$$m\widehat{AD} = 76^\circ$$

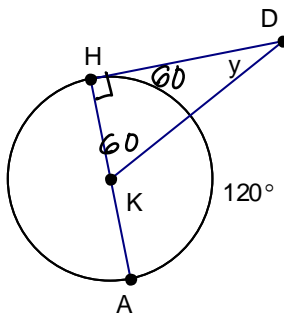
$$m\widehat{DE} = 108^\circ$$

9. Find  $m\widehat{LM}$ .



$$m\widehat{LM} = 110^\circ$$

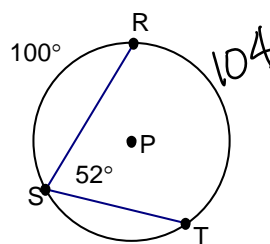
10. Solve for y.



$$y = 30^\circ$$

11. Find:

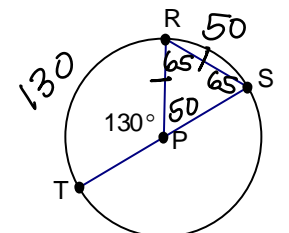
$m\widehat{RT}$  and  $m\widehat{ST}$



$$m\widehat{RT} = 104^\circ$$

$$m\widehat{ST} = 154^\circ$$

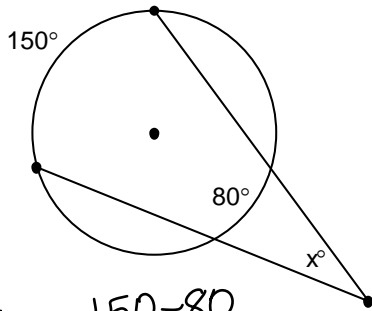
12. Find  $m\angle R$ .



$$\angle R = 180 - (50 + 65)$$

$$\angle R = 65^\circ$$

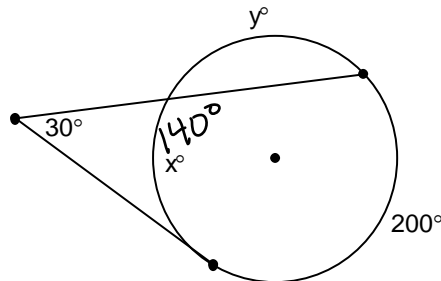
13. Solve for x.



$$2x = \frac{150 - 80}{2}$$

$$x = 35^\circ$$

14. Solve for x and y.



$$\frac{200 - x}{2} = 30$$

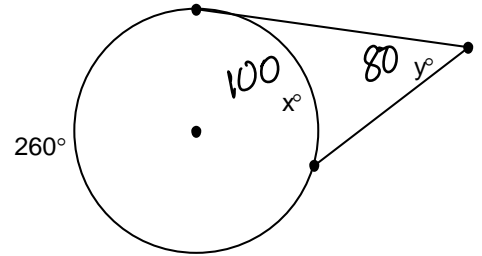
$$y = 20^\circ$$

$$200 - x = 60$$

$$-x = -140$$

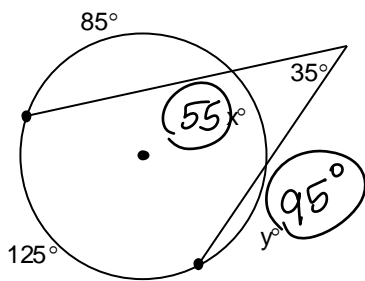
$$x = 140$$

15. Solve for x and y.



$$\frac{260 - 100}{2} = \frac{160}{2} = 80^\circ$$

16. Solve for x and y.



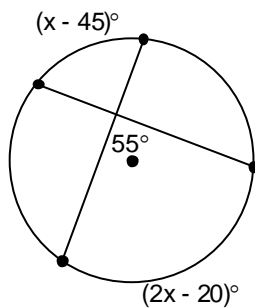
$$\frac{125 - x}{2} = 35$$

$$125 - x = 70$$

$$-x = -55$$

$$x = 55$$

17. Solve for x.



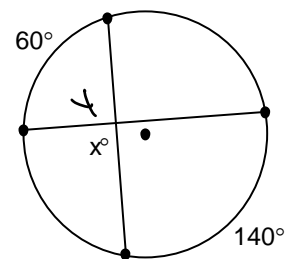
$$\frac{3x - 65}{2} = 55$$

$$x = 58.3$$

$$3x - 65 = 110$$

$$3x = 175$$

18. Solve for x.



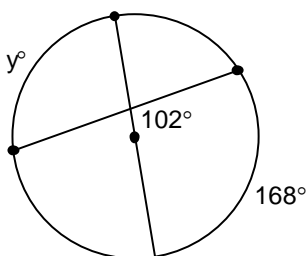
$$y = \frac{140 + 60}{2}$$

$$x = 180 - 100$$

$$y = 100$$

$$x = 80^\circ$$

19. Solve for y.

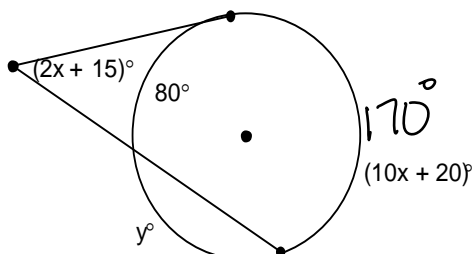


$$\frac{168 + y}{2} = 102$$

$$168 + y = 204$$

$$y = 36^\circ$$

20. Solve for x and y.



$$2 \cdot \frac{(10x + 20) - 80}{2} = [2x + 15] 2$$

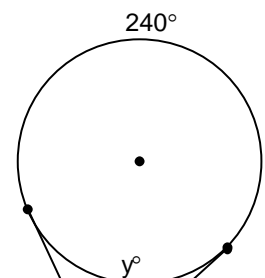
$$10x - 60 = 4x + 30$$

$$6x = 90$$

$$x = 15$$

$$y = 110^\circ$$

21. Solve for x and y.



$$y = 360 - 240$$

$$y = 120^\circ$$

$$x = \frac{240 - 120}{2}$$

$$x = 60^\circ$$