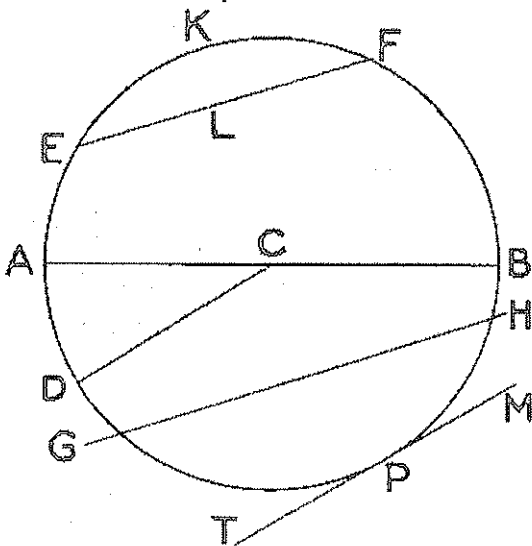


Identify each segment provided with the word center, radius, chord, or diameter using the picture to the left.



EF: Chord

AB: diameter

C: center

BC: radius

DC: radius

~~GH:~~ \_\_\_\_\_

~~AC:~~ \_\_\_\_\_

Solve for the missing measure indicated.

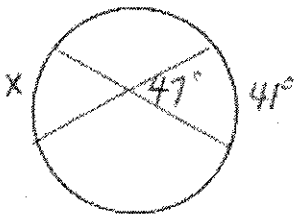
1. Find measure  $\hat{X}$

A)  $76^\circ$

B)  $94^\circ$

C)  $53^\circ$

D)  $133^\circ$



$$\frac{X + 41}{2} = 47$$

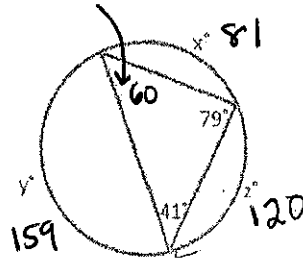
2. Find measure Z

A)  $120^\circ$

B)  $41^\circ$

C)  $60^\circ$

D)  $82^\circ$

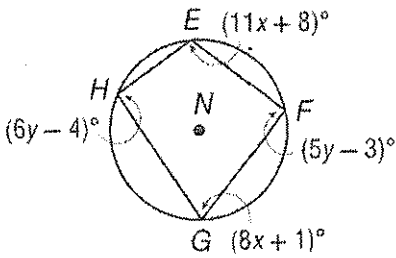


$$X + 41 = 94$$

$$X = 53$$

3. Find measure  $\angle G$

- A)  $73^\circ$
- B)  $82^\circ$
- C)  $9^\circ$
- D)  $90^\circ$

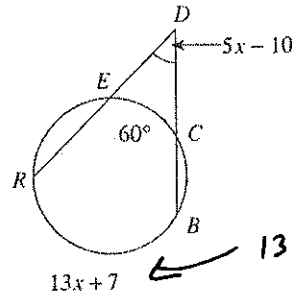


$$19x + 9 = 180 \quad 11y - 7 = 180$$

$$x = 9 \quad \angle G = 8(9) + 1 = 73^\circ$$

4. Find the measure of  $m\widehat{RB}$

- A)  $75^\circ$
- B)  $100^\circ$
- C)  $150^\circ$
- D)  $110^\circ$



$$13(11) + 7 = 150$$

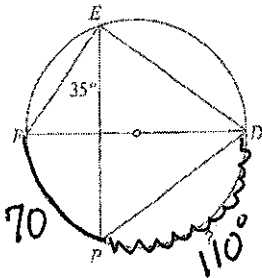
$$\frac{(13x+7) - 60}{2} = 5x - 10 \rightarrow 13x + -53 = 10x - 20$$

$$3x = 33$$

$$x = 11$$

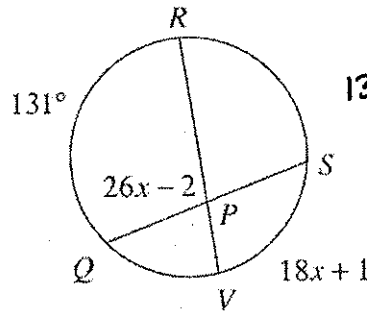
5. Find measure of  $\widehat{PD}$

- A)  $180^\circ$
- B)  $110^\circ$
- C)  $70^\circ$
- D)  $100^\circ$



6. Solve for  $\angle QPR$

- A)  $85^\circ$
- B)  $110^\circ$
- C)  $102^\circ$
- D)  $90^\circ$



$$\frac{131 + 18x + 1}{2} = 26x - 2$$

$$18x + 132 = 52x - 4$$

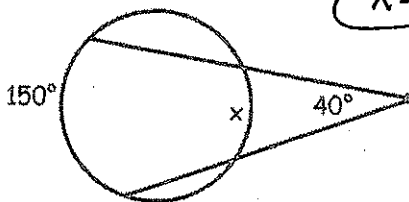
$$136 = 34x$$

$$x = 4$$

$$26(4) - 2 = 102^\circ$$

7. Find measure of X

- A)  $110^\circ$
- B)  $98^\circ$
- C)  $80^\circ$
- D)  $47^\circ$

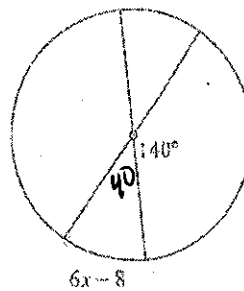


$$\frac{150 - X}{2} = 40$$

$$X = 70$$

8. Solve for X

- A) 10
- B) 14
- C) 8
- D) 40



$$6x - 8 = 40$$

$$6x = 48$$

$$x = 8$$

$$150 - X = 80$$

$$X = 70$$

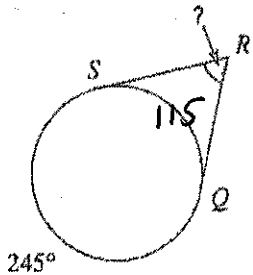
9. Find  $\angle SRQ$

A)  $74^\circ$

B)  $115^\circ$

C)  $65^\circ$

D)  $60^\circ$



$$\frac{245 - 115}{2} = 65^\circ$$

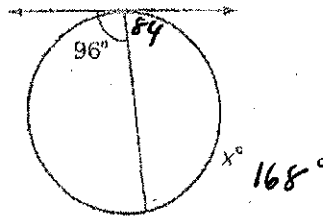
10. Find the measure of  $x$

A)  $94^\circ$

B)  $168^\circ$

C)  $96^\circ$

D)  $84^\circ$



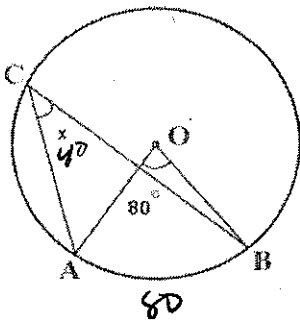
11. Find the measure of  $\hat{x}$

A)  $40^\circ$

B)  $35^\circ$

C)  $47^\circ$

D)  $16^\circ$



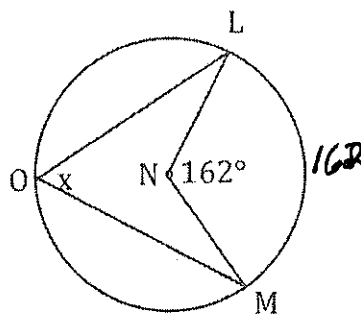
12. Find measure of  $\angle X$

A)  $90^\circ$

B)  $162^\circ$

C)  $84^\circ$

D)  $81^\circ$



$$\frac{162}{2} = x = 81^\circ$$

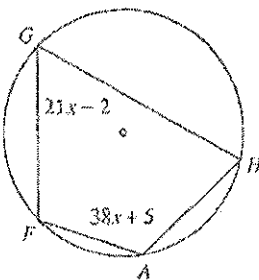
13. Solve for  $x$ .

A) 10

B) 7

C) 3

D) 18



$$59x + 3 = 180$$

$$59x = 177$$

$$x = 3$$

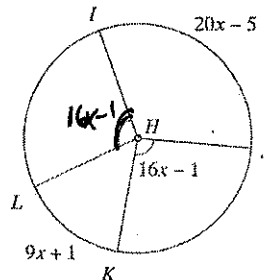
14. Find  $\angle LHI$

A)  $56^\circ$

B)  $73^\circ$

C)  $95^\circ$

D)  $90^\circ$



$$16(6) - 1 = 95^\circ$$

$$2(16x - 1) + 20x - 5 + 9x + 1 = 360$$

$$32x - 2 + 20x - 5 + 9x + 1 = 360$$

$$61x - 6 = 360$$

$$61x = 366$$

$$x = 6$$

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

$$-21x$$

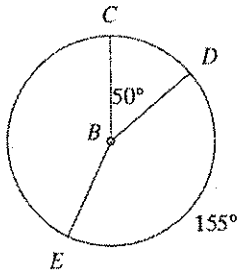
$$17x + 5 = -2$$

$$17x = -7$$

$$\frac{17x}{17} = \frac{-7}{17}$$~~

Solve for the missing measure indicated.

15. Find  $\angle EBC$



A)  $106^\circ$

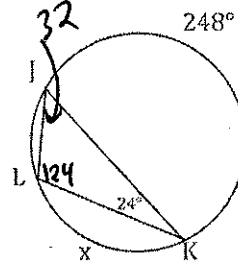
B)  $50^\circ$

C)  $205^\circ$

D)  $155^\circ$

$$360 - 50 - 155 = 155$$

16. Find the measure of  $\angle J$



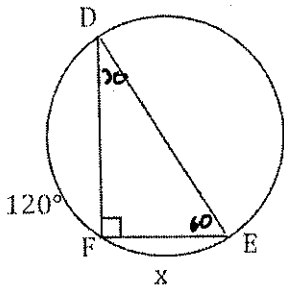
A)  $124^\circ$

B)  $17^\circ$

C)  $32^\circ$

D)  $108^\circ$

17. Find the measure of x.



A)  $30^\circ$

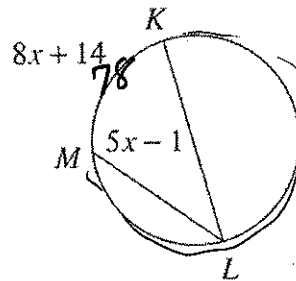
B)  $23^\circ$

C)  $60^\circ$

D)  $45^\circ$

$$60^\circ$$

18. Find measure of  $m\angle KLM$



A)  $282^\circ$

B)  $47^\circ$

C)  $317^\circ$

D)  $56^\circ$

$$360 - 78 = 282$$

$$2(5x - 1) = 8x + 14$$

$$10x - 2 = 8x + 14$$

$$2x = 16$$

$$x = 8$$