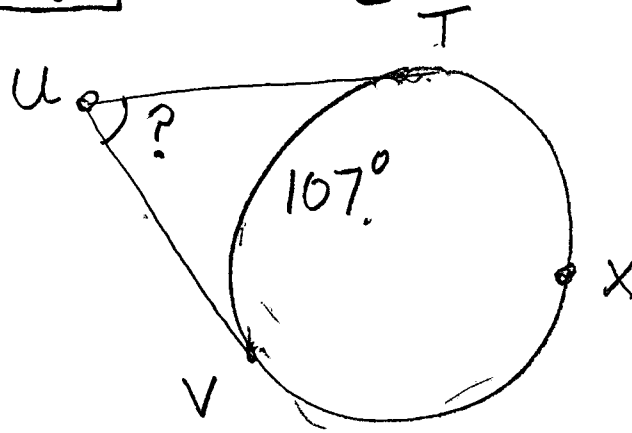


Geometry

Monday 1-14-13

CLASS NOTES

①



$$\begin{array}{r} 51 \\ 360 \\ -107 \\ \hline 253 \end{array}$$

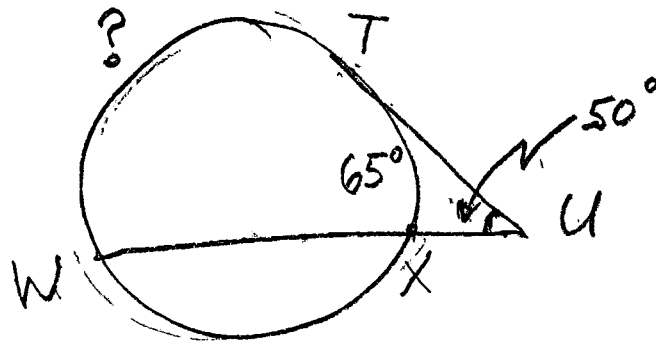
$$\widehat{TV} = 107^\circ$$

$$\widehat{TXV} = 253^\circ$$

$$\frac{253 - 107}{2} = \frac{146}{2}$$

$$= \boxed{73^\circ}$$

⑦

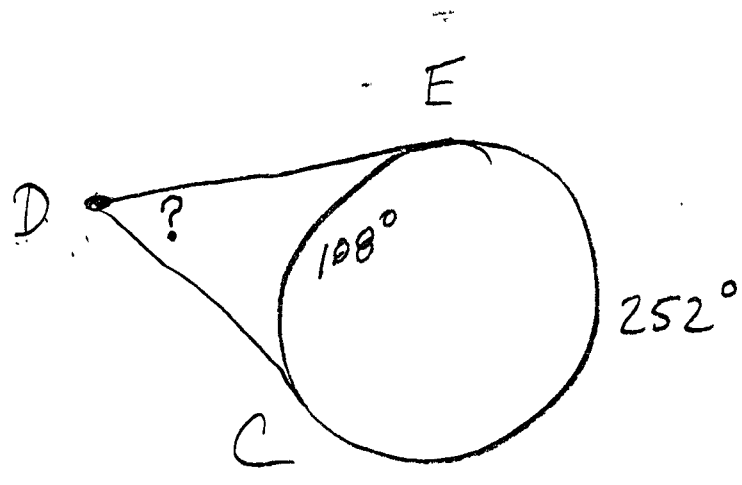


$$\frac{\widehat{WT} - 65}{2} = 50$$

$$\widehat{WT} - 65 = 100$$

$$\boxed{\widehat{WT} = 165^\circ} \checkmark$$

5



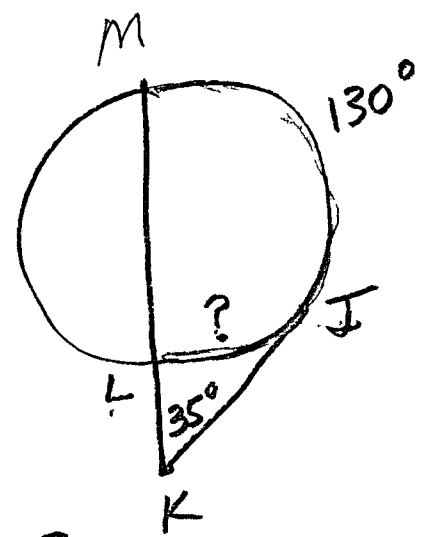
$$360 - 252 = 108^\circ$$

$$\begin{array}{r} 41 \\ 252 \\ -108 \\ \hline 144 \end{array}$$

$$\frac{252 - 108}{2} = D$$

$$\frac{144}{2} = D = 72^\circ$$

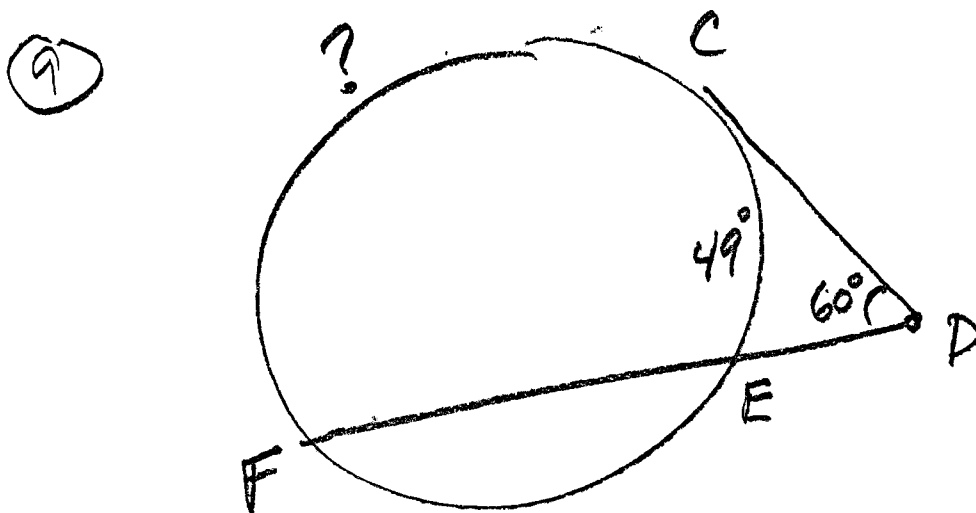
10



$$\frac{130 - \hat{JL}}{2} = 35$$

$$130 - \hat{JL} = 70$$

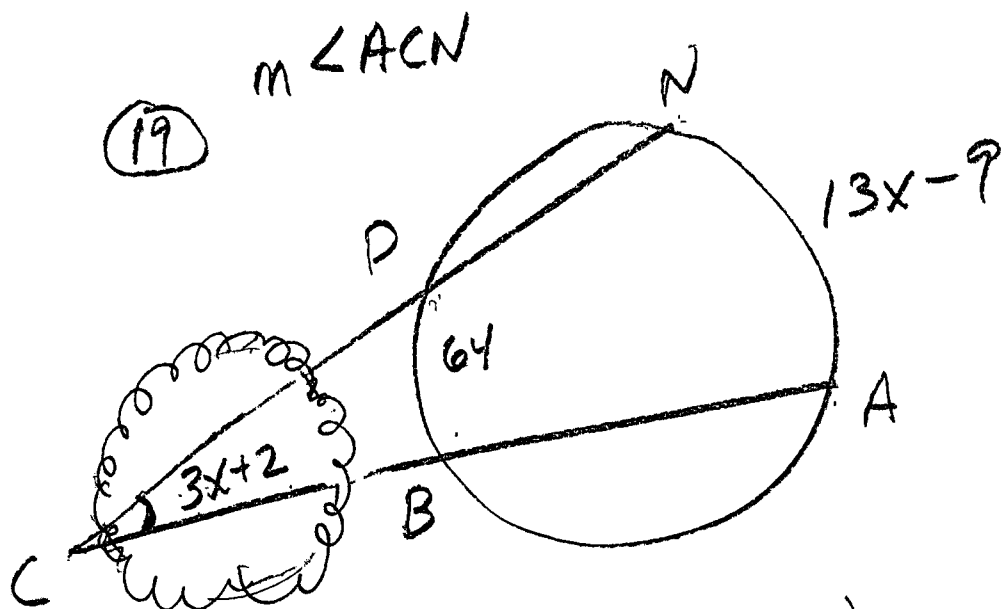
$$-\hat{JL} = -60 \therefore \hat{JL} = 60^\circ$$



$$\frac{\widehat{CF} - 49}{2} = 60$$

$$\begin{array}{r} \widehat{CF} - 49 = 120 \\ + 49 \quad + 49 \end{array}$$

$$\boxed{\widehat{CF} = 169^\circ}$$



$$\frac{(\text{big arc}) - (\text{small arc})}{2} = m\text{Angle}$$

$$\frac{(13x-9) - (64)}{2} = 3x+2$$

$$\begin{array}{r} 13x - 73 \\ -6x + 73 \\ \hline 7x \end{array}$$

$$\frac{7x}{7}$$

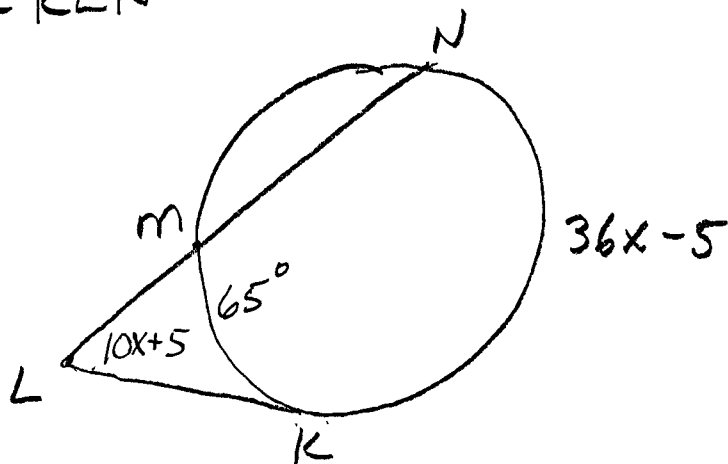
$$= \frac{6x + 4}{7x + 73}$$

$$= \frac{77}{7}$$

$$x = 11$$

$$3(11) + 2 = \boxed{35 = m\angle ACN}$$

20 $m \angle KLN$



$$\frac{(36x-5) - (65)}{2} = 10x+5$$

$$\begin{array}{r} 36x - 70 = 20x + 10 \\ -20x \qquad -20x \\ \hline 16x - 70 = 10 \end{array}$$

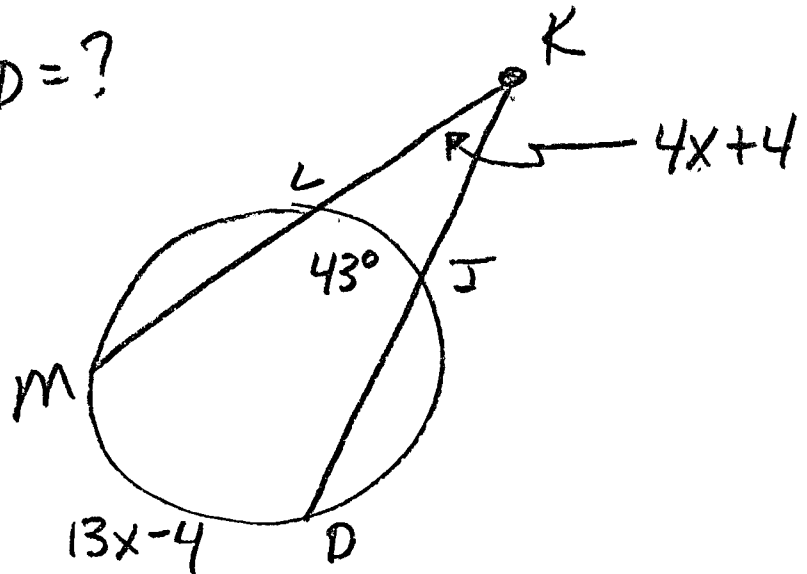
$$\frac{16x}{16} = \frac{80}{16}$$

$$x = 5$$

$$\therefore 10(5) + 5$$

$$m \angle KLN = 55^\circ$$

(21) $m\angle MKD = ?$



$$\frac{(13x-4) - (43)}{2} = 4x+4$$

$$13x - \underline{4} - \underline{43} = 8x + 8$$

$$13x - 47 = 8x + 8$$

$$-8x$$

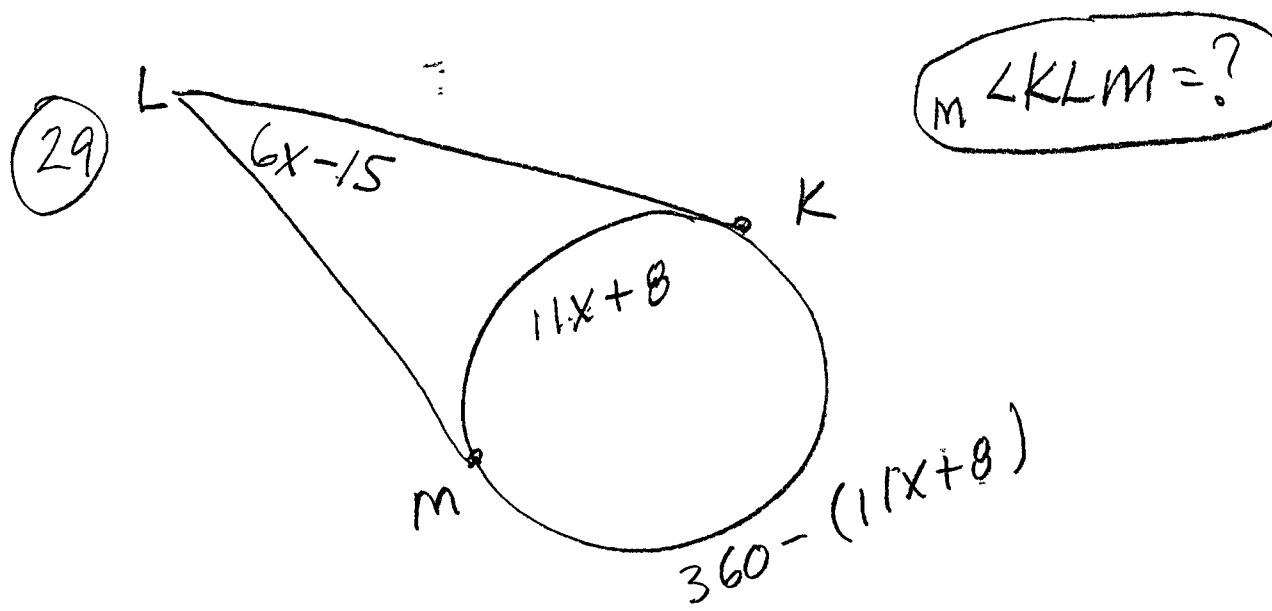
$$5x - 47 = 8$$

$$+47$$

$$\frac{5x}{5} = \frac{55}{5}$$

$$x = 11$$

$$\therefore m\angle MKD = 4(11) + 4 = 48^\circ$$



$$\frac{[360 - (11x + 8)] - (11x + 8)}{2} = 6x - 15$$

$$\underline{360 - 11x - 8} - \underline{11x - 8} = 12x - 30$$

$$\begin{array}{r} 344 - 22x \\ +30 + 22x \\ \hline \end{array}$$

$$\begin{array}{r} = 12x - 30 \\ +22x + 30 \end{array}$$

$$\frac{374}{34}$$

$$= \frac{34x}{34}$$

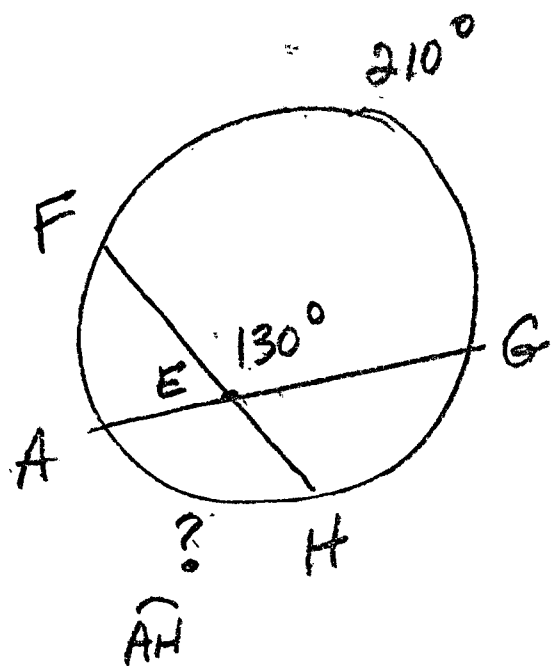
$$11 = x$$

$$\therefore 6(11) - 15$$

$$66 - 15$$

$$51^\circ = m\angle KLM \quad \checkmark$$

(46)

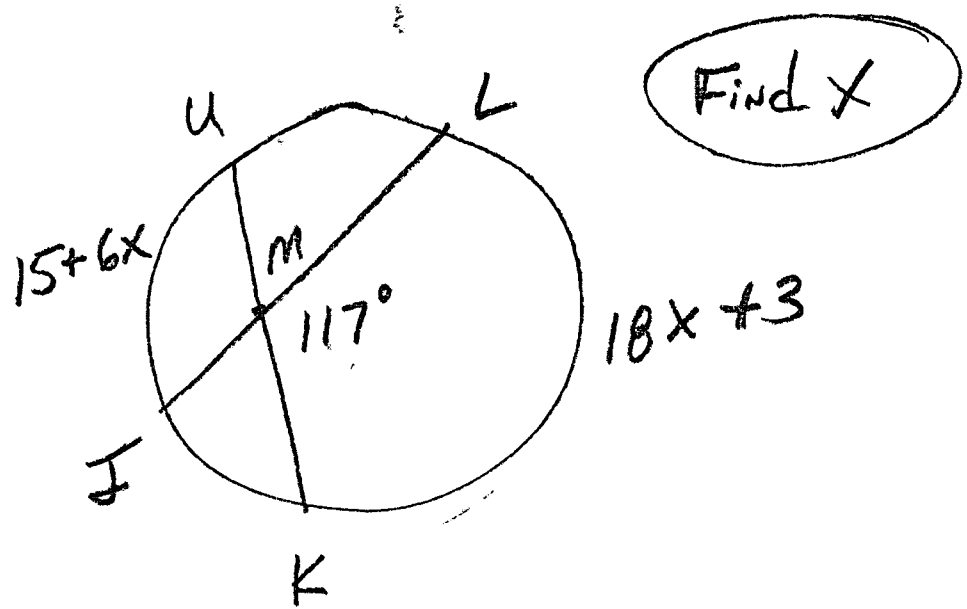


$$\frac{210^\circ + \widehat{AH}}{2} = 130$$

$$\begin{array}{r} 210 + \widehat{AH} = 260 \\ -210 \qquad \qquad -210 \end{array}$$

$$\boxed{\widehat{AH} = 50^\circ}$$

(56)



Find X

$$\frac{(18x+3) + (15+6x)}{2} = 117$$

$$18x+3 + 15+6x = 234$$

$$24x + 18 = 234$$

$$-18 \quad -18$$

$$\frac{24x}{24} = \frac{216}{24} = \frac{108}{12}$$

$$x = 9$$