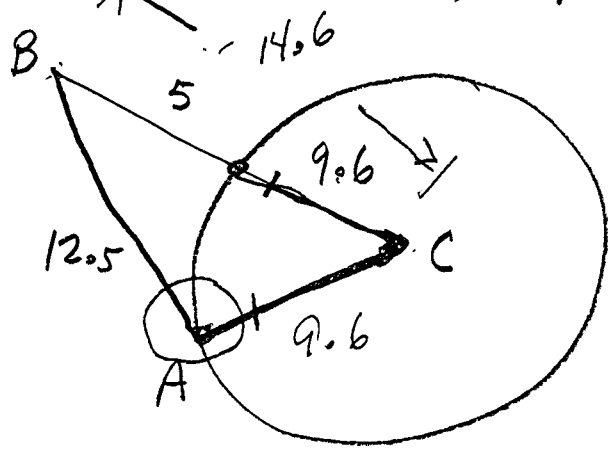
GEOMETRY

Weds. 1-16-13 CLASS NOTES

1. OBC



$\overline{AB}$ tangent?

If $m\angle BAC = 90°$, then $\overline{AB}$ tangent

$$14.6^2 \stackrel{?}{=} 12.5^2 + 9.6^2$$

$$\begin{array}{r} 14.6 \\ \times\ 14.6 \\ \hline 876 \\ 584 \\ 146 \\ \hline 213.16 \end{array}$$

$$\begin{array}{r} 12.5 \\ \times\ 12.5 \\ \hline 625 \\ 250 \\ 125 \\ \hline 156.25 \end{array}$$

$$\begin{array}{r} 9.6 \\ \times\ 9.6 \\ \hline 576 \\ 864 \\ \hline 92.16 \end{array}$$

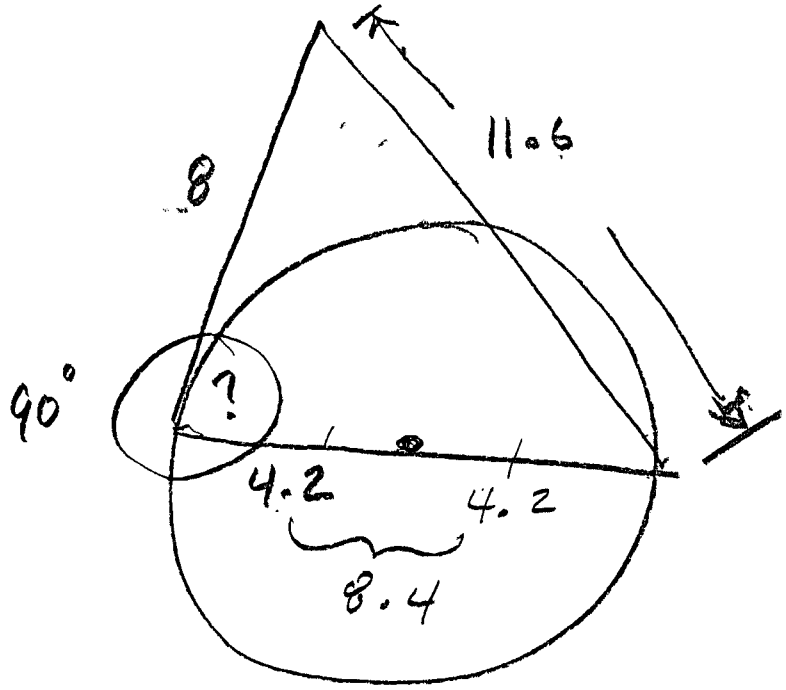
$213.16 \stackrel{?}{\neq} 248.41$ ∴ NOT TANGENT

OBC1 REVIEW

(2.)

OBC

$\overline{AB}$ tangent?



$$11.6^2 \stackrel{?}{=} 8^2 + 8.4^2$$

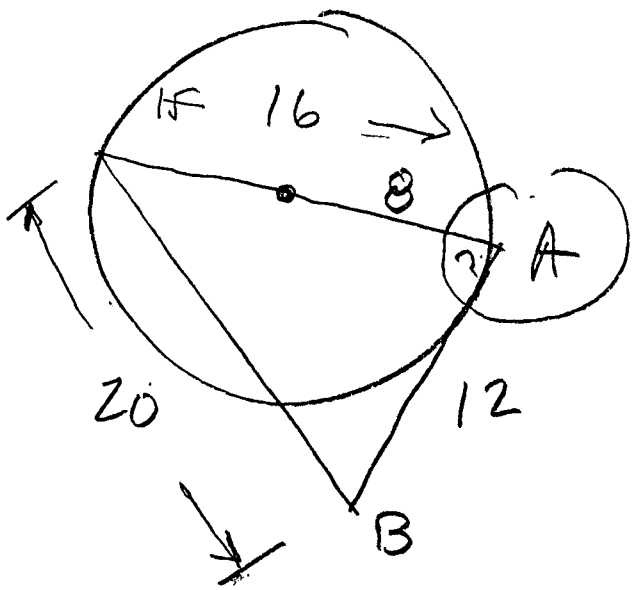
$8^2 \rightarrow 64$

11.6		8.4
×11.6		8.4
696		336
116		672
116		70.56
134.56	=	64.00
		134.56 ✓

$\therefore$ $\overline{AB}$ is tangent

(1)

ID2



? is it 90°

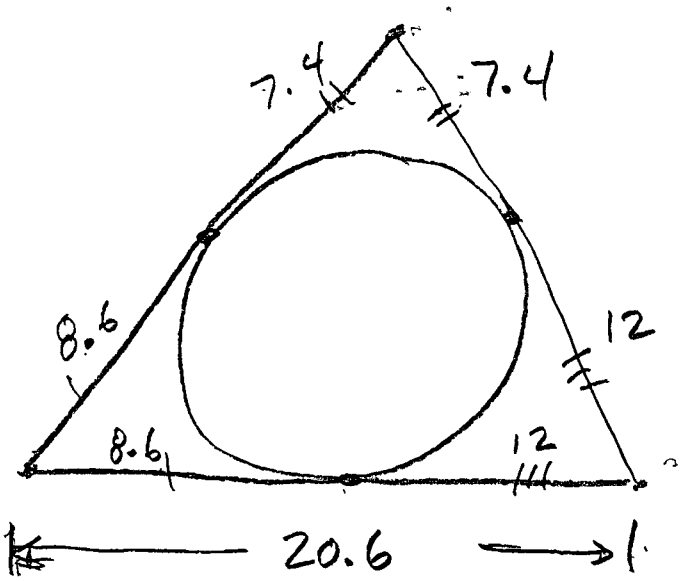
$20^2 \overset{?}{=} 12^2 + 16^2$

$400 = 144 + 256$

$400 = 400$ ✓ yes

QUIZ 1 REVIEW

(2)
ID1



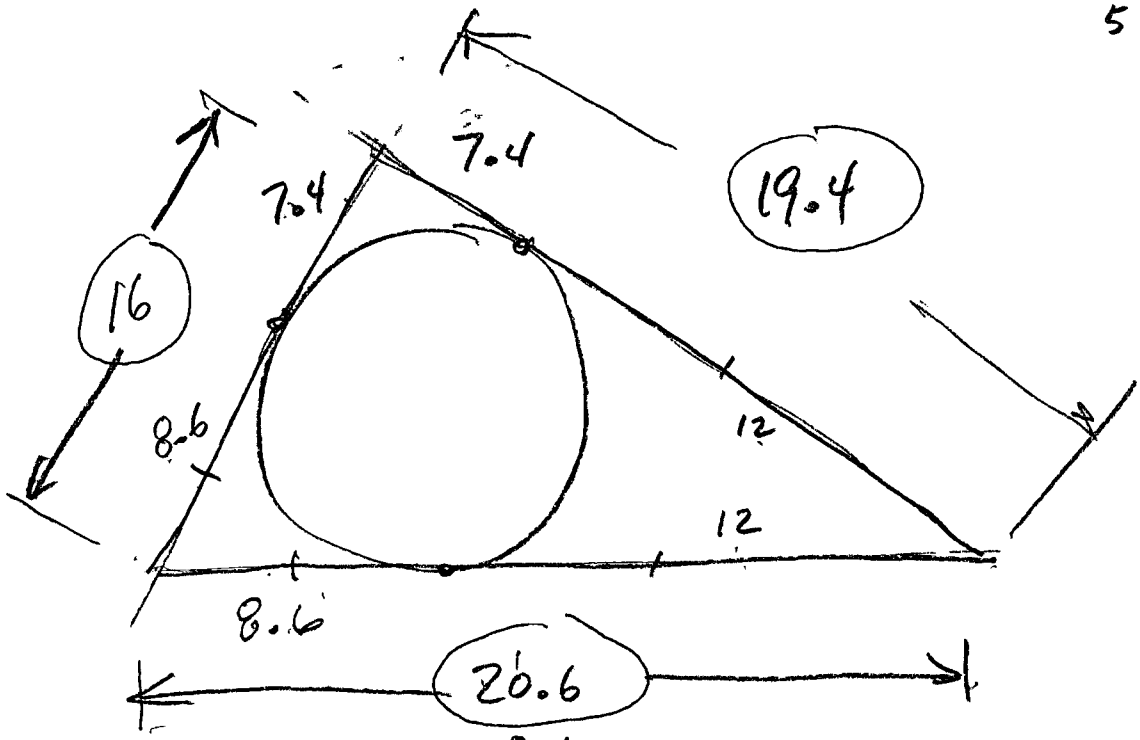
$$20.6 - 8.6 = 12.0$$

$$P = 19.4 + 20.6 + 16.0$$

$$\boxed{56.0}$$

(2)

ID2

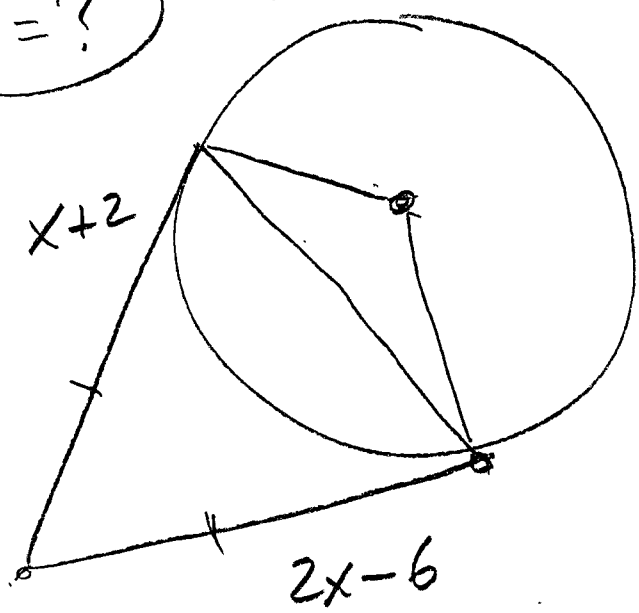


$20.6 - 8.6 = 12.0$

$$P = 11 + 19.4 + 20.6$$

$$\boxed{56.0}$$

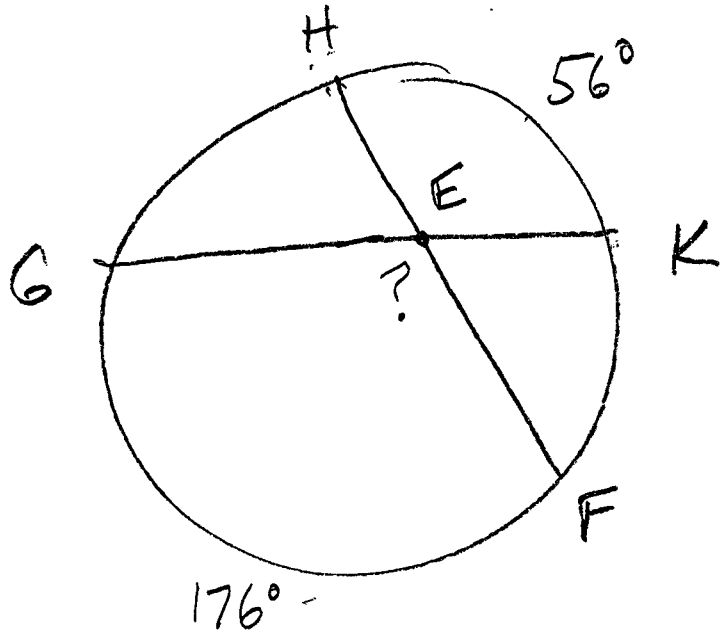
(3) $X = ?$



$$X + 2 = 2X - 6$$
$$-X \quad +6 \qquad -X \quad +6$$
$$\boxed{8 = X}$$

(4)

ID1



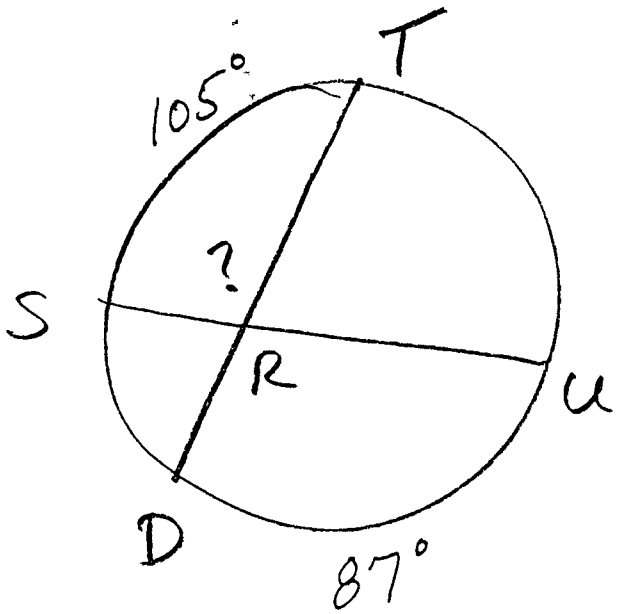
$$\frac{176+56}{2} = x$$

$$\frac{232}{2} = x$$

$$116^\circ = x$$

(5)

ID2



$$\frac{105+87}{2} = x$$

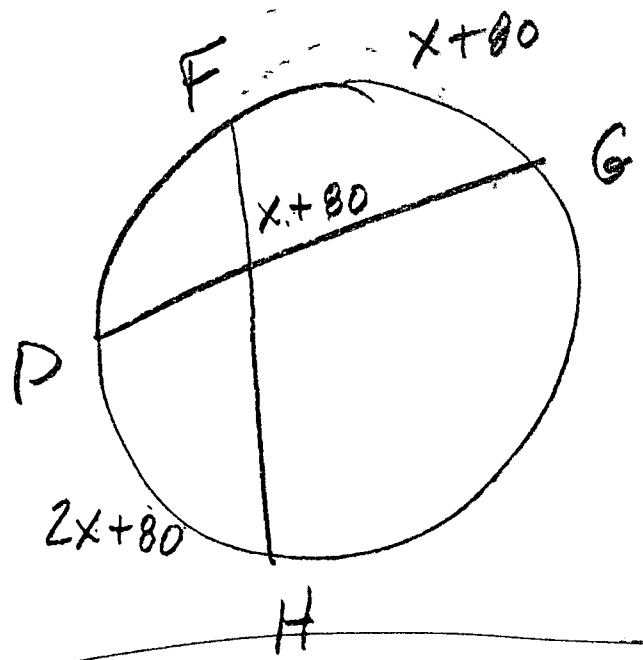
$$\frac{192}{2} = x$$

$$96^\circ = x$$

(6)

ID1

FIND X



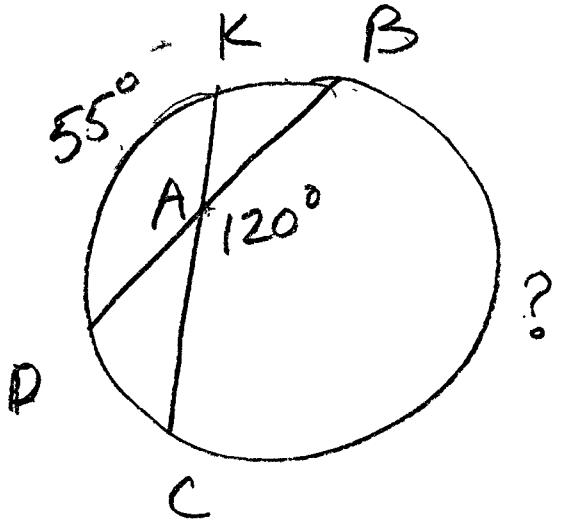
$$\frac{(2x+80)+(x+80)}{2} = x+80$$

$$3x + 160 = 2x + 160$$
$$-2x \quad -160 \quad -2x \quad -160$$

$$x = 0$$

(7)

ID: 1



$$\frac{\overset{\frown}{BC} + 55}{2} = 120 \cdot 2$$

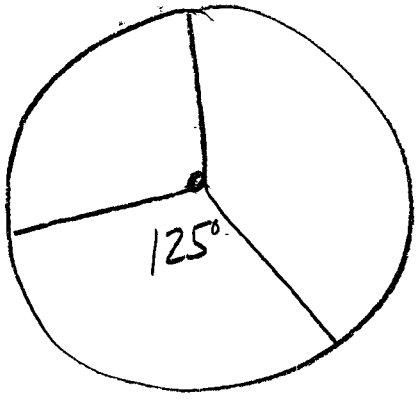
$$\overset{\frown}{BC} + 55 = 240$$

$$-55 \qquad -55$$

$$\overset{\frown}{BC} = 185^\circ$$

(8)

IDI



? = 125°

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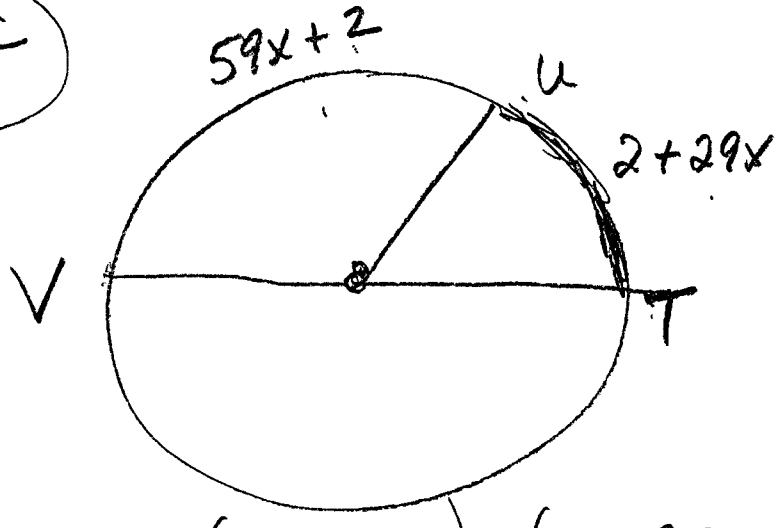
(11) $m\widehat{UT}$



$180 = (59x+2)+(2+29x)$

$180 = 88x + 4$

$-4 \qquad -4$

$\frac{44}{22} = \frac{88}{44} = \frac{176}{88} = \frac{88x}{88}$

$x = 2$!

$2+29(2)$

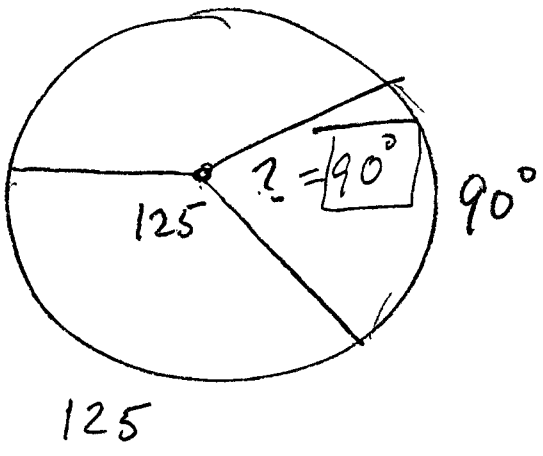
$2+58$

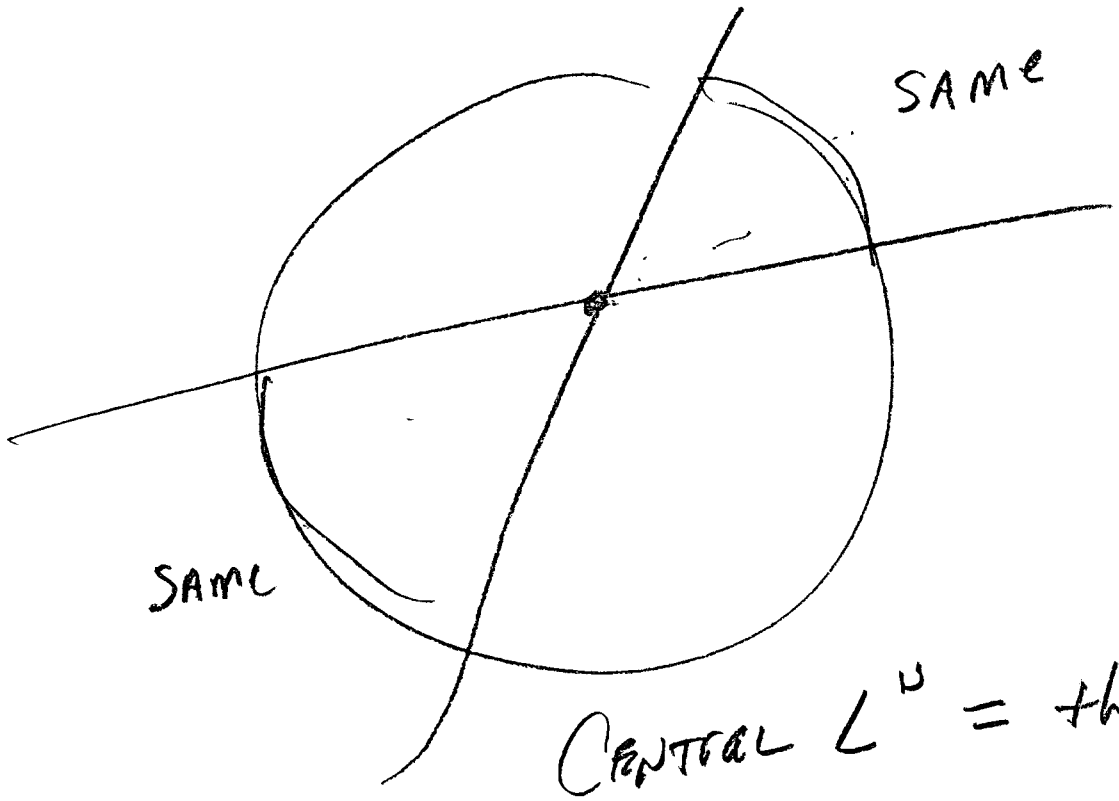
60°

← 360 TOTAL

(9.)

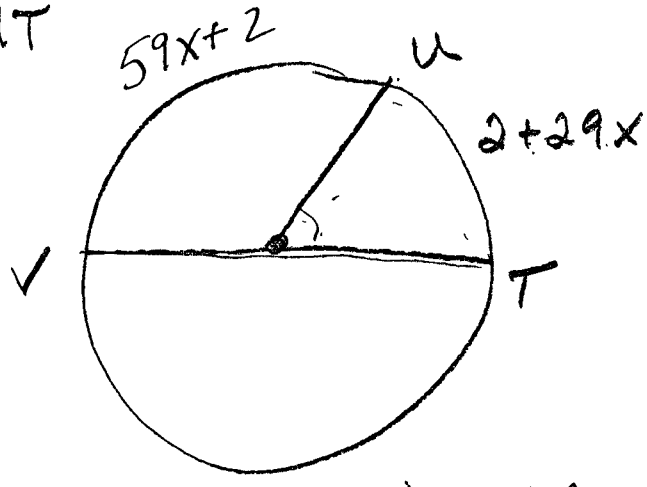
ID 1





CENTRAL $\angle^{S}$ = their ARCS!

(11) $m\overset{\frown}{UT}$



$(59x+2)+(2+29x)=180$

$88x+4=180$

$-4 \quad -4$

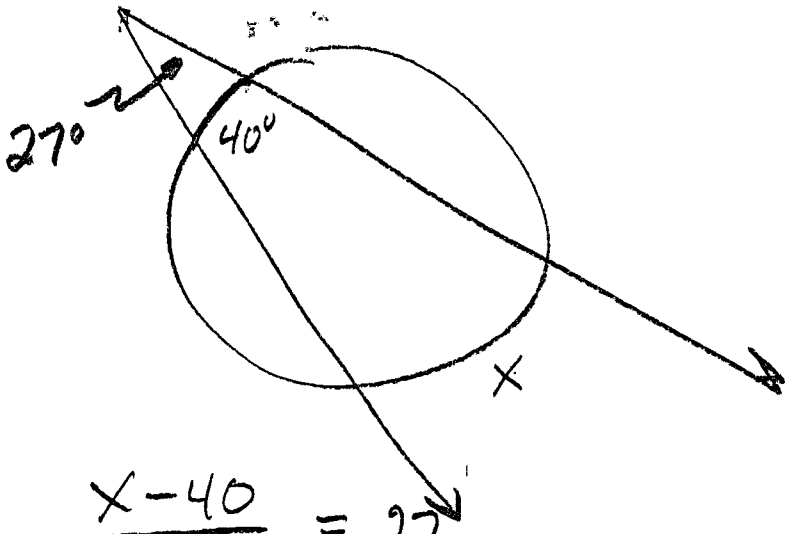
$\frac{88x}{88}=\frac{176}{88}$

$x=2$ ∴ $2+29(2)$

$2+58$

$m\overset{\frown}{UT}=60^\circ$

Pg 834 (10)

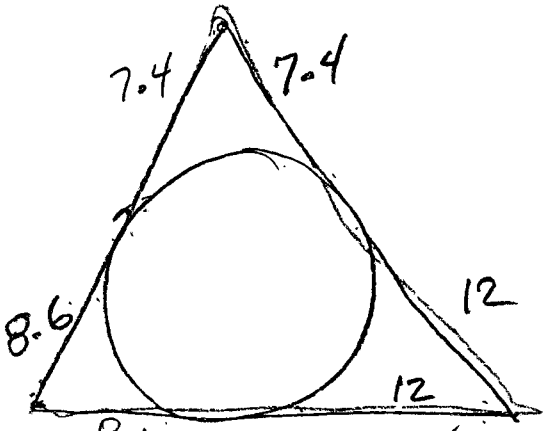


$$\frac{X-40}{2} = 27$$

$$X-40 = 54$$
$$+40 \quad +40$$

$$\boxed{X = 94^\circ}$$

(2) ID1



20.6 − 8.6 = 12

20.6
12.0
7.4
7.4
8.6
56.0

Homework Review