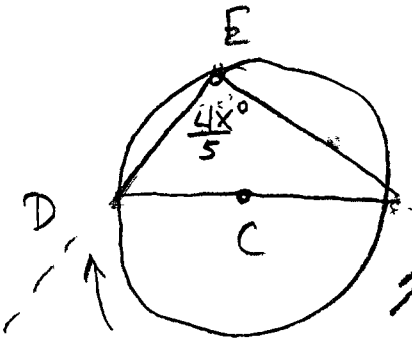
GEOMETRY Tuesday 1-8-13 CLASS NOTES

Homework Review

(7.) $X = ?$



$\overset{\frown}{mDF} = 180$

$m\angle DEF = 90°$

$\therefore 5 \cdot \frac{4X}{5} = 90 \cdot 5$

$\frac{4X}{4} = \frac{450}{4}$

$\therefore \boxed{X = 112.5}$

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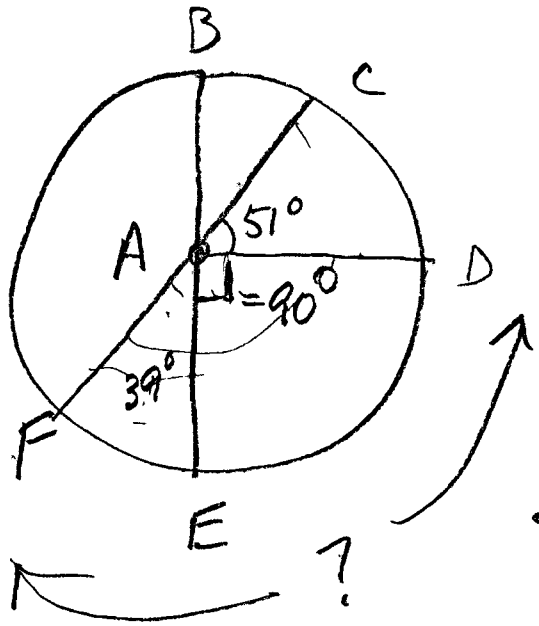
(11) $\overset{\frown}{mDF}$



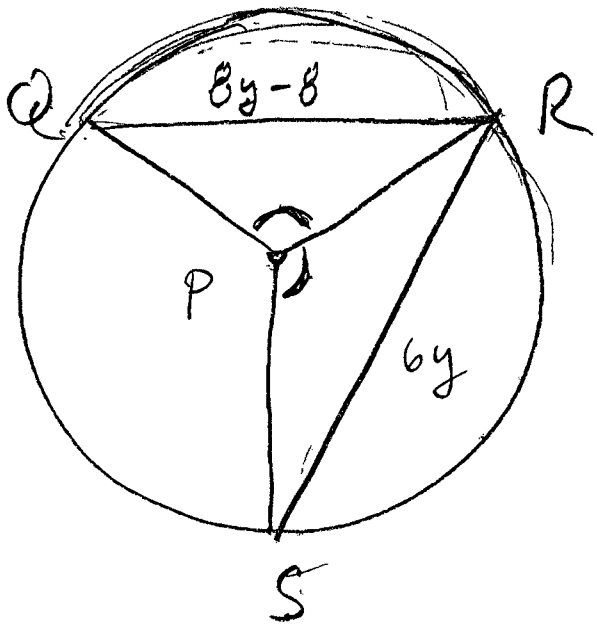
$180 - 141$

$= 39°$

$\therefore \boxed{\overset{\frown}{mDF} = 129°}$

(15)

QR



$8y-8 = 6y$

$\frac{2y}{2} = \frac{8}{2}$

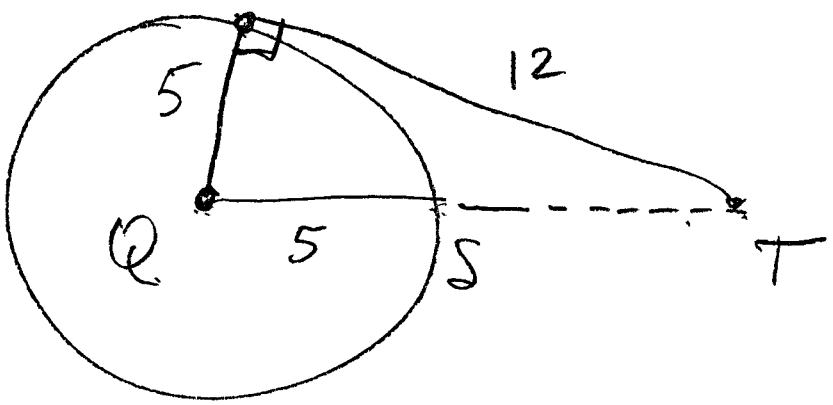
$y = 4$

$8(4) - 8$

$32 - 8$

$24 = QR$

(31)



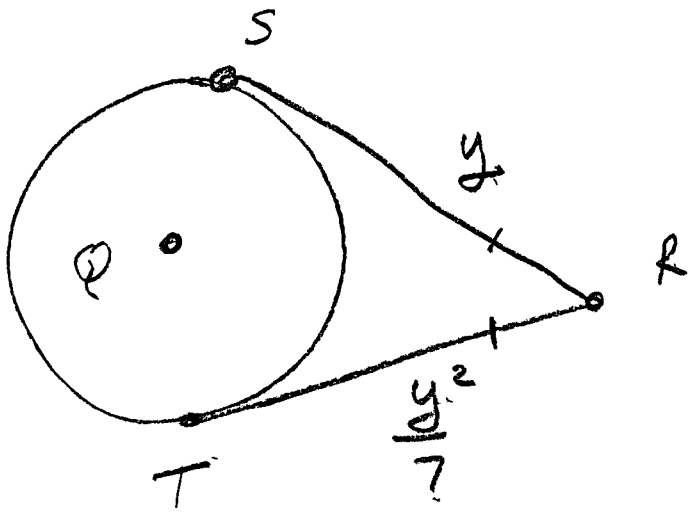
$5^2 + 12^2 = QT^2$

$169 = QT^2$

$13 = QT$

$\therefore ST = 8$

(17) RT



$$y = \frac{y^2}{7}$$

$$7y = y^2$$

$$-7y \qquad -7y$$

$$y^2 - 7y = 0$$

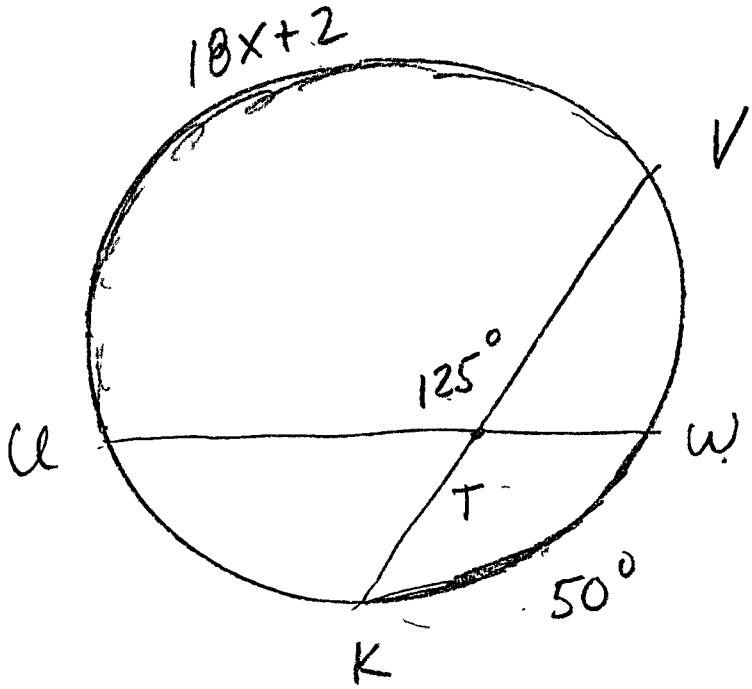
$$y(y-7) = 0$$

$$y = \{0, 7\}$$

$$y = 7 = RT$$

Worksheet Practice

(25) Find x



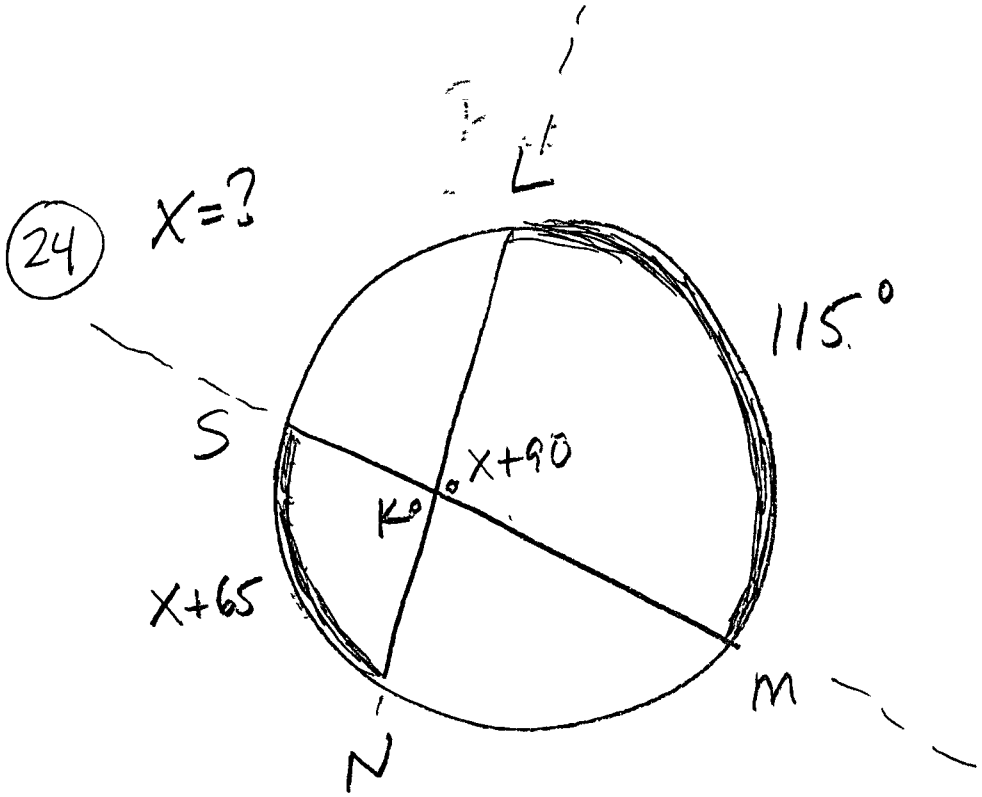
$$\frac{(18x+2)+50}{2} = 125$$

$$18x + 52 = 250$$
$$-52 \quad -52$$

$$\frac{18x}{18} = \frac{198}{18}$$

$$\boxed{x = 11}$$

(24) $x=?$



$$\frac{(x+65)+115}{2} = x+90$$

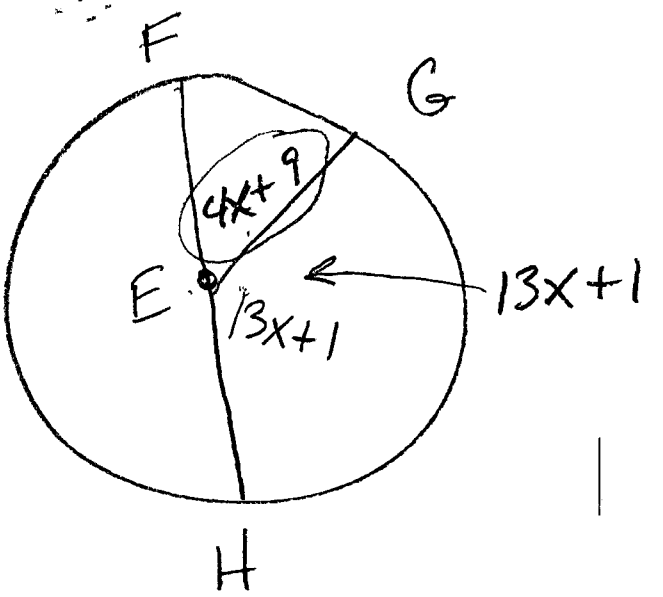
$$2 \cdot \frac{x+180}{2} = (x+90)\,2$$

$$x+180 = 2x+180$$

$$-x \qquad -x$$

$$0 = x$$

(73) $m\angle FEG$



$$4x+9+13x+1 = 180$$

$$17x + 10 = 180$$
$$-10 \quad -10$$

$$\frac{17x}{17} = \frac{170}{17}$$

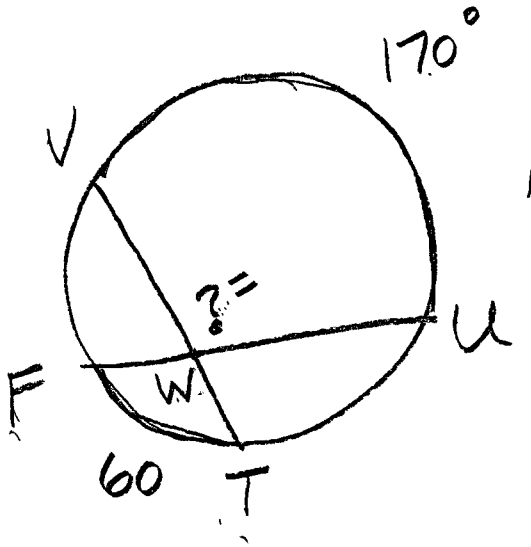
$$\boxed{x = 10}$$

$\therefore m\angle FEG = 4(10) + 9$

$$\boxed{49^\circ}$$

Worksheet Practice

(12)



$m\angle VWU = \frac{170+60}{2}$

$= \frac{230}{2}$

$= \boxed{115^\circ}$

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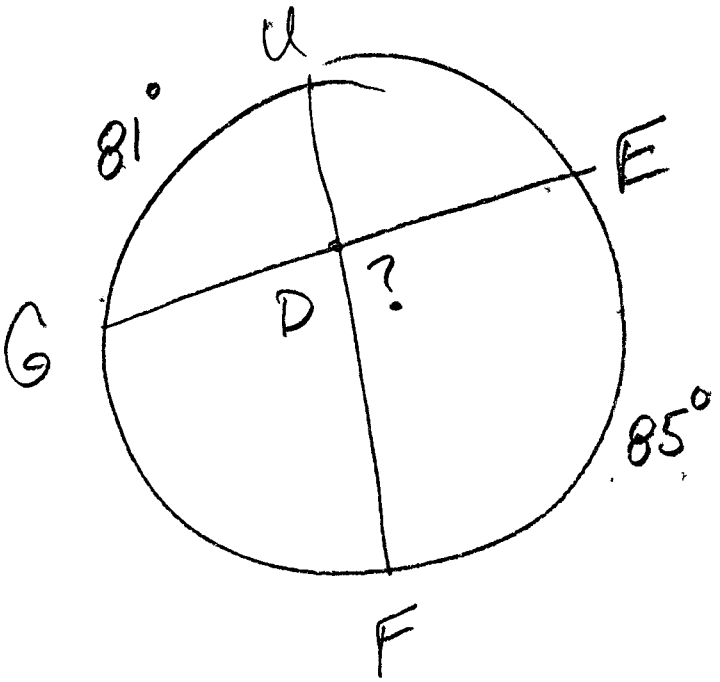
(16)

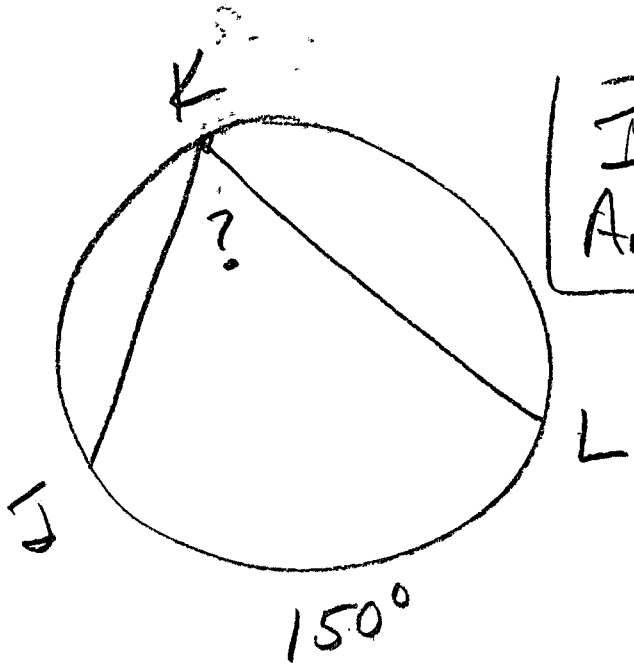


$m\angle EDF =$

$\frac{81+85}{2} =$

$\boxed{83^\circ}$

(37)



Inscribed Angle

$m\angle JKL = 75°$

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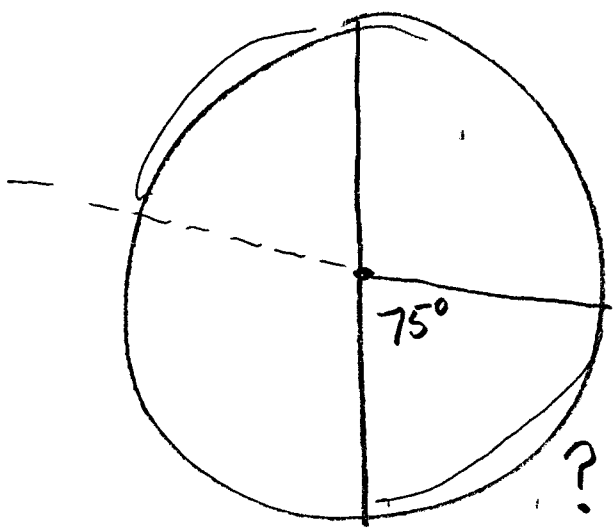
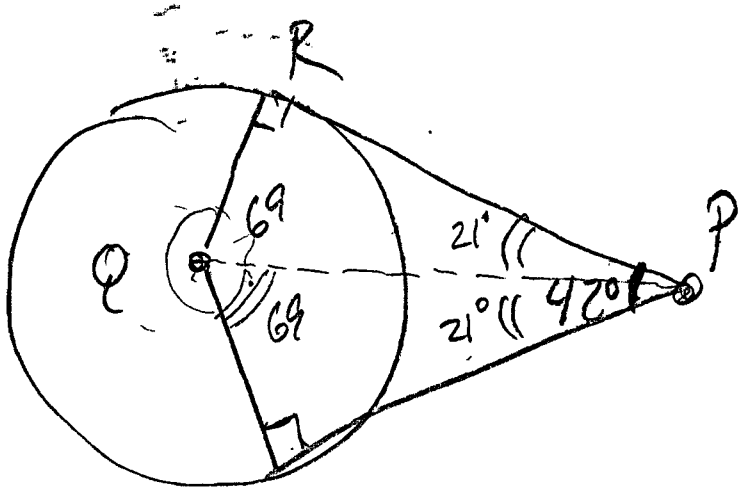
(57)



$? = 75°$

(26) $m\angle Q$



$m\angle RPS = 138^\circ$

$m\angle Q = 360$
-138
222° ✓