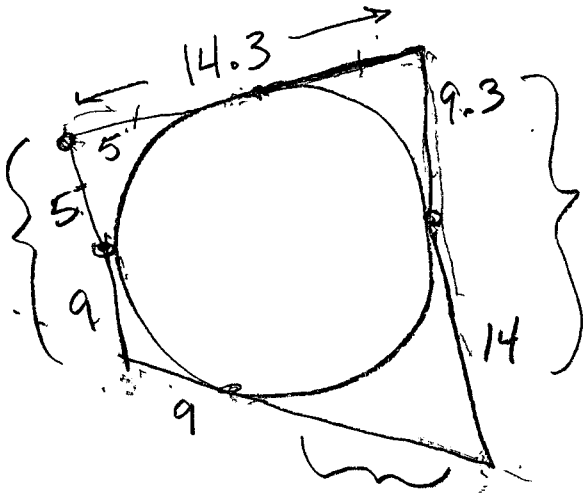
Geometry Weds. 1-9-13

CLASS NOTES

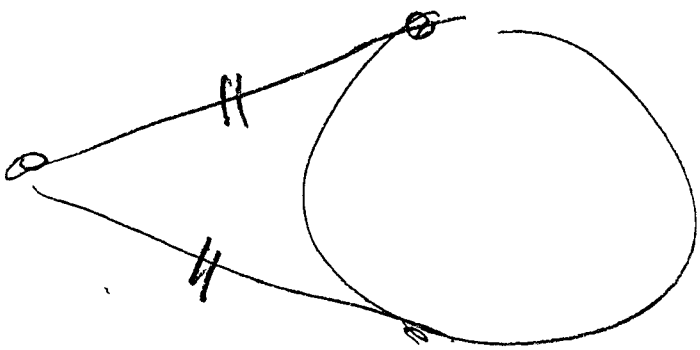
(5)



14.3
−9.3
5.0

14.3
9.3
14.0
14.0
9.0
14.0

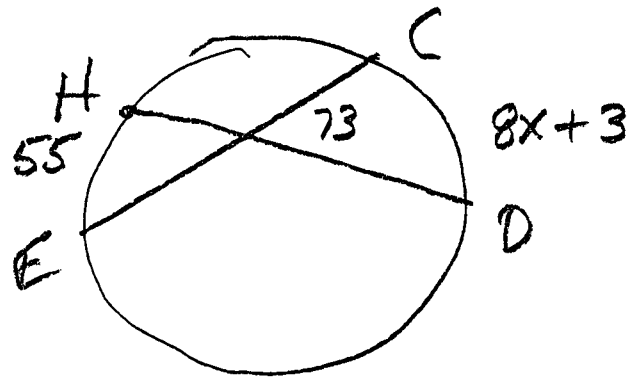
74.6



TANGENTS ARE CONGRUENT

Worksheet Practice

(31)



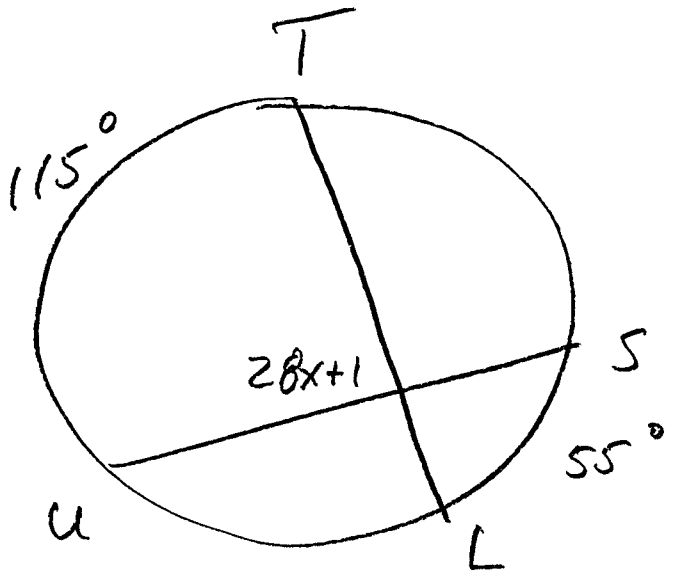
$$\frac{8x+3+55}{2} = 73$$

$$8x+58 = 146$$
$$-58 \quad -58$$

$$\frac{8x}{8} = \frac{88}{8}$$

$$x = 11$$

(32)



$$28x + 1 = \frac{115 + 55}{2}$$

$$28x + 1 = \frac{170}{2}$$

$$28x + 1 = 85$$

$$28x = 84$$

$$\boxed{x = 3}$$

(33) $\frac{50 + 32x + 8}{2} = 19x + 11$

$58 + 32x = 38x + 22$

$-32x \quad -32x$

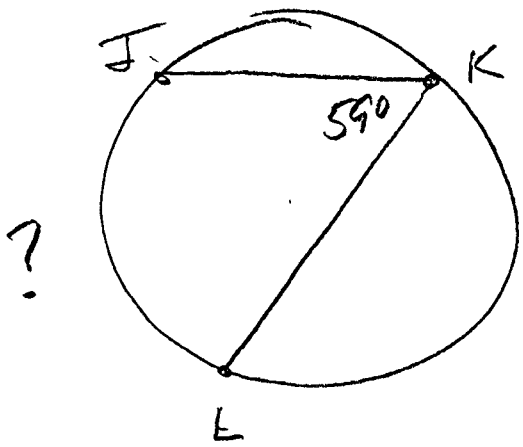
$58 = 6x + 22$

$-22 \quad -22$

$\frac{36}{6} = \frac{6x}{6}$

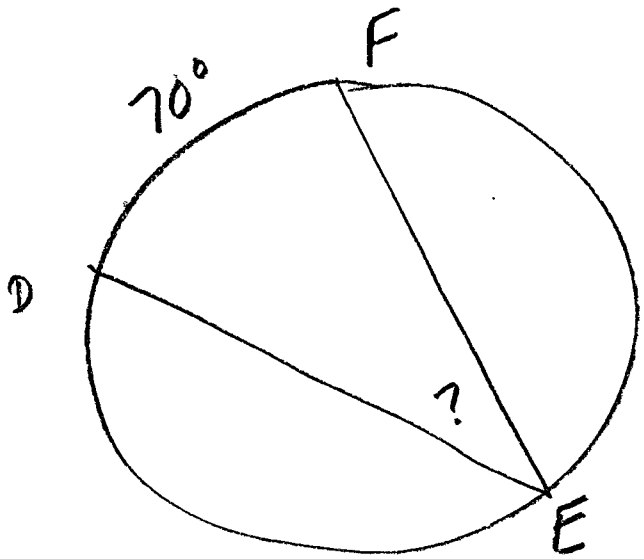
$6 = x$

(44)



$? = 2(59) = 118°$

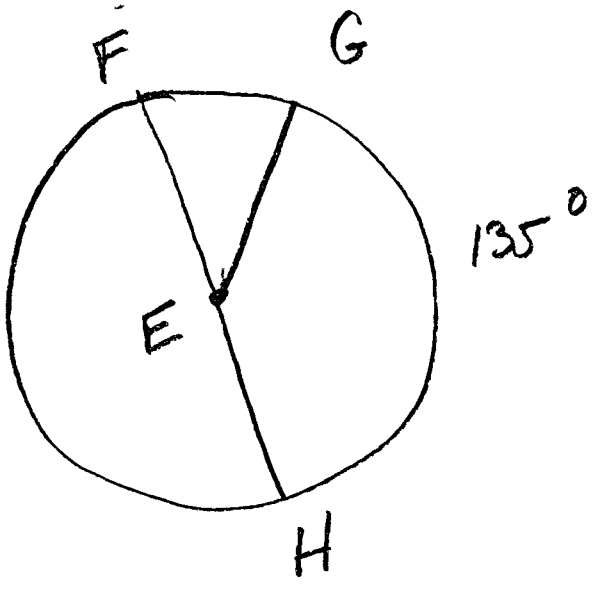
(46)



$? = \frac{70}{2} = 35°$

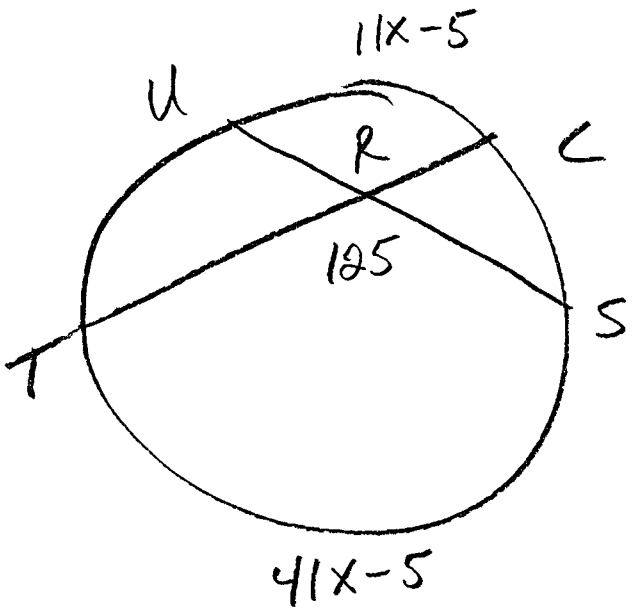
Inscribed Angles

(66) $m\angle FEG$



$m\angle FEG = 180 - 135 = 45^\circ$

(34)



$$\frac{41x-5+11x-5}{2} = 125$$

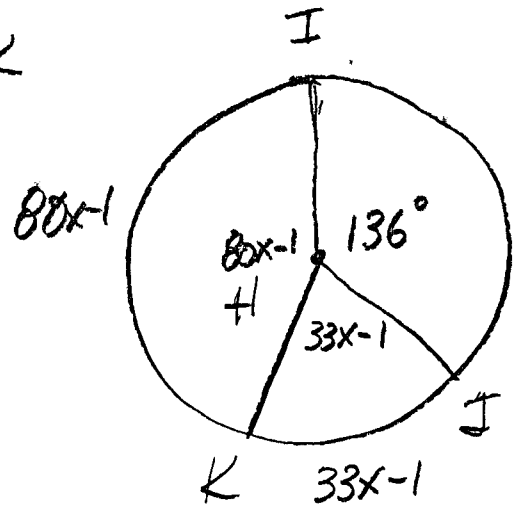
$$52x - 10 = 250$$

$$52x = 260$$

$$x = \frac{260}{52}$$

$$\boxed{x = 5}$$

(80) $m\angle JHK$



$80x-1+136+33x-1=360$

$113x+134=360$

$-134 \quad -134$

$113x=226$

$x=2$

$\therefore m\angle JHK = 33(2)-1$

$= 66-1$

$\boxed{m\angle JHK = 65^\circ}$