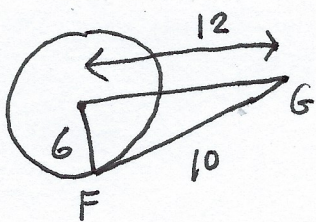


ch10.5

Solutions to # 2, 3, 4 and 6

#2



Is  $\overline{FG}$  tangent?

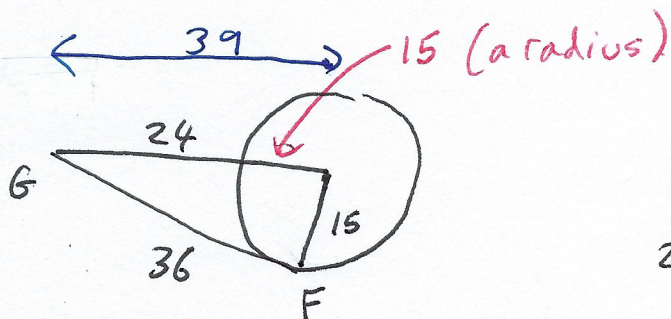
$$6^2 + 10^2 \stackrel{?}{=} 12^2$$

$$36 + 100 = 144$$

$$136 \neq 144$$

No, not tangent

#3



Is  $\overline{FG}$  tangent?

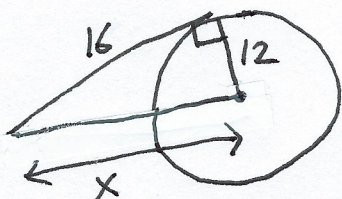
$$15^2 + 36^2 \stackrel{?}{=} 39^2$$

$$225 + 1296 = 1521$$

$$1521 = 1521 \quad \checkmark$$

yes, tangent

#4



Find X

$$12^2 + 16^2 = X^2$$

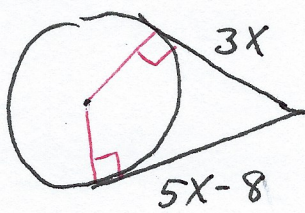
$$144 + 256 = X^2$$

$$400 = X^2$$

$$\sqrt{400} = X$$

$$\boxed{20} = X$$

#6

Find  $X$ 

$$3X = 5X - 8$$

$$8 = 5X - 3X$$

$$8 = 2X$$

$$\boxed{4} = X$$