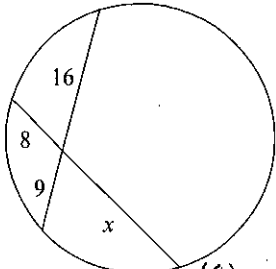


Chord Segment Lengths

Solve for  $x$ . Assume that lines which appear tangent are tangent.

1)



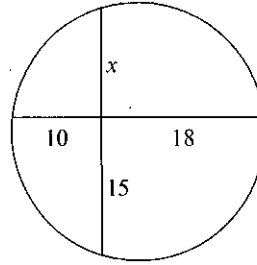
$$8x = 16(9)$$

$$8x = 144$$

$$\frac{8x}{8} = \frac{144}{8}$$

$$x = 18$$

2)



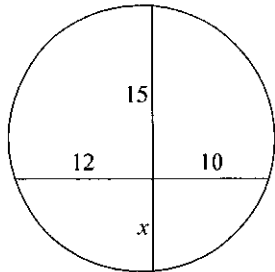
$$15x = 18(10)$$

$$15x = 180$$

$$\frac{15x}{15} = \frac{180}{15}$$

$$x = 12$$

3)



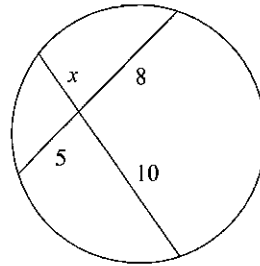
$$15x = 10(12)$$

$$15x = 120$$

$$\frac{15x}{15} = \frac{120}{15}$$

$$x = 8$$

4)



$$10x = 5(8)$$

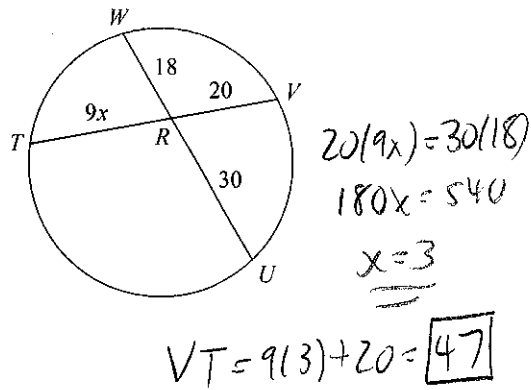
$$10x = 40$$

$$\frac{10x}{10} = \frac{40}{10}$$

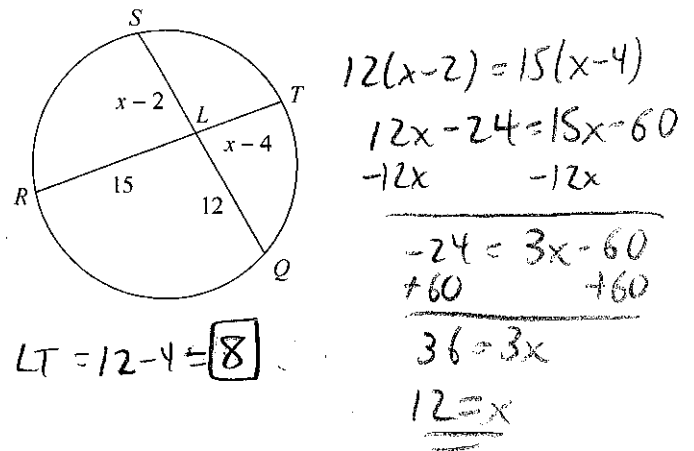
$$x = 4$$

Find  $x$  and the measure of the line segment indicated.

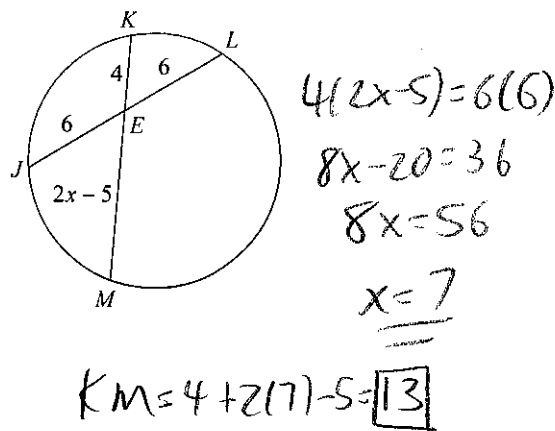
5) Find  $VT$



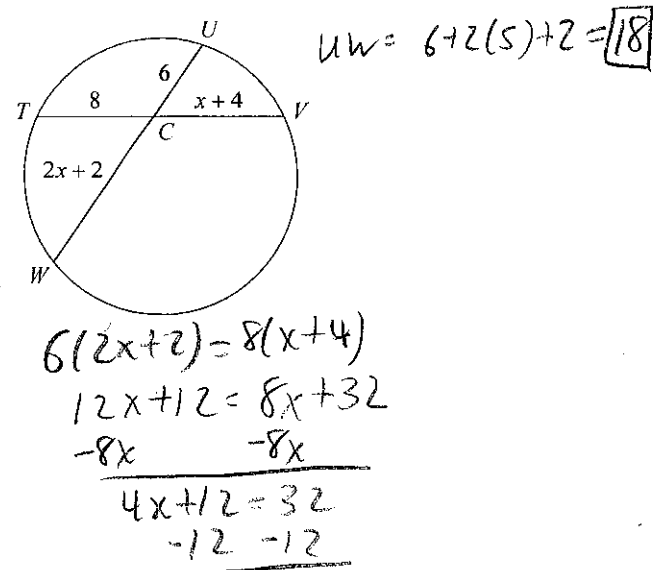
6) Find  $LT$



7) Find  $KM$



8) Find  $UW$



**BONUS: Solve for  $x$ .**

9)

