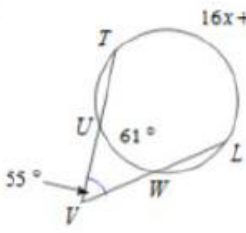
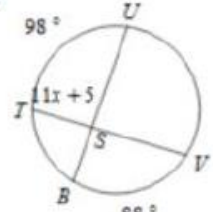
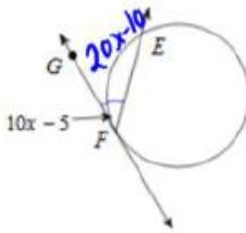


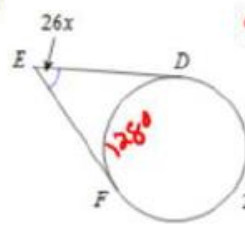
Circle Properties Review

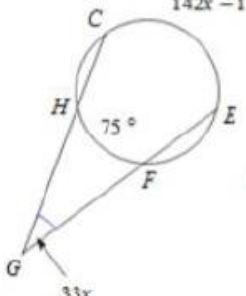
Solve for x. Assume that lines which appear tangent are tangent.

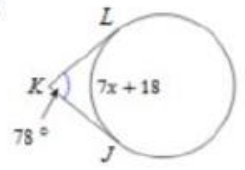
1)  $2(55) = 16x + 11 - 61$
 $110 = 16x - 50$
 $160 = 16x$
 $x = 10$

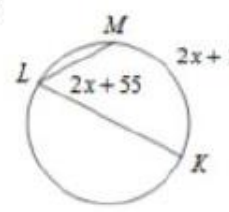
2)  $2(11x + 5) = 98 + 88$
 $22x + 10 = 186$
 $22x = 176$
 $x = 8$

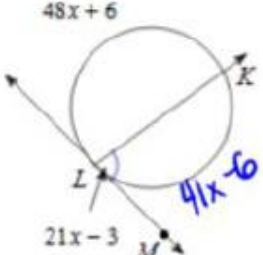
3)  $2(10x - 5) = 20x - 10$
 $20x - 10 + 54x = 360$
 $74x - 10 = 360$
 $74x = 370$
 $x = 5$

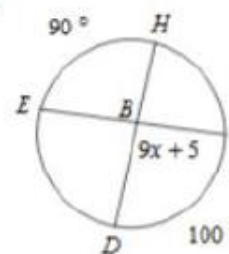
4)  $Small\ Arc = 360 - 232 = 128$
 $2(26x) = 232 - 128$
 $52x = 104$
 $x = 2$

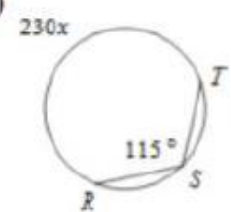
5)  $2(33x) = 142x - 1 - 75$
 $66x = 142x - 76$
 $-76x = -76$
 $x = 1$

6)  $Special\ property\ of\ tangent - Tangent$
 $180 - small = angle$
 $180 - (7x + 18) = 78$
 $162 - 7x = 78$
 $-7x = -84$
 $x = 12$

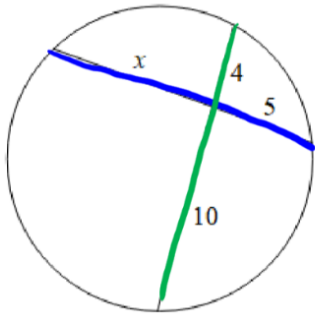
7)  $2(2x + 55) = 2x + 110$
 $4x + 110 = 2x + 110$
 $2x = 0$
 $x = 0$

8)  $2(21x - 3) = 42x - 6$
 $42x - 6 + 48x + 6 = 360$
 $90x = 360$
 $x = 4$

9)  $2(9x + 5) = 100 + 90$
 $18x + 10 = 190$
 $18x = 180$
 $x = 10$

10)  $2(115) = 230x$
 $230 = 230x$
 $x = 1$

11)



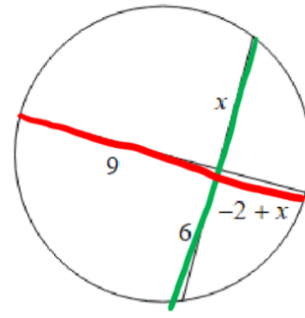
Part(Part) = Part(Part)

$$5(x) = 4(10)$$

$$5x = 40$$

$$x = 8$$

12)



Part(Part) = Part(Part)

$$6(x) = 9(-2+x)$$

$$6x = -18 + 9x$$

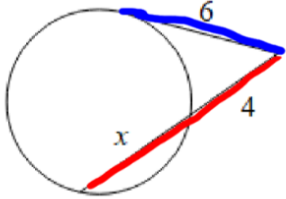
$$-6x = -18$$

$$x = 3$$

Out(whole) = Out(whole)

Out(whole) = out(whole)

13)



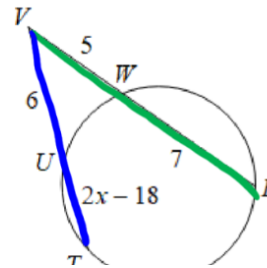
$$6(6) = 4(x+4)$$

$$36 = 4x + 16$$

$$20 = 4x$$

$$5 = x$$

14) Find TU



$$5(7+5) = 6(2x-18+6)$$

$$60 = 6(2x-12)$$

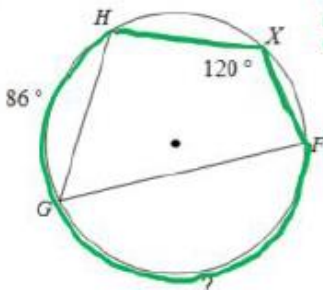
$$60 = 12x - 72$$

$$132 = 12x$$

$$11 = x$$

Find the measure of the arc or angle indicated.

15)

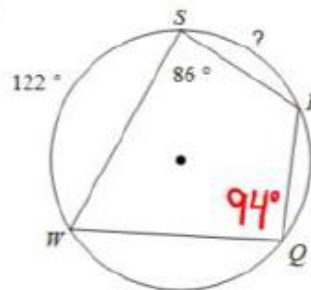


$$2(120) = 86 + ?$$

$$240 = 86 + ?$$

$$154 = ?$$

16)



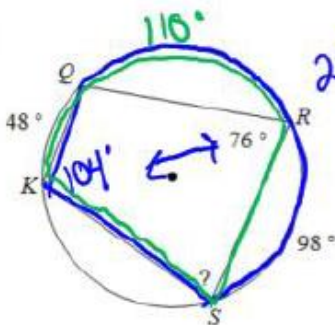
$$m\angle Q = 180 - 86 = 94$$

$$2(94) = 122 + ?$$

$$188 = 122 + ?$$

$$66 = ?$$

17)

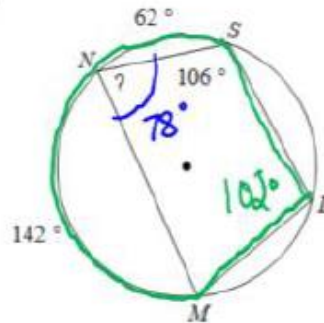


$$208$$

$$208 - 98 = 110$$

$$2(?) = 110 + 48$$

18)



$$2(m\angle L) = 142 + 62$$

$$2(m\angle L) = 204$$

$$m\angle L = 102$$

$$? = 180 - 102 = 78^\circ$$