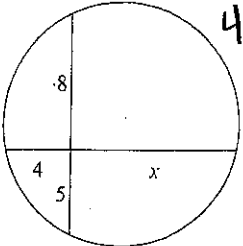
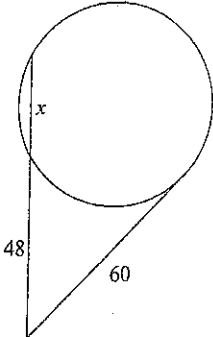
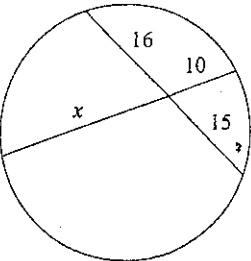


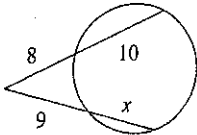
Segments in Circles (WKST 9.6)

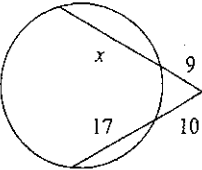
Solve for x . Assume that lines which appear tangent are tangent.

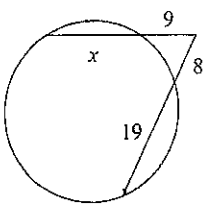
1)  $4x = 40$
 $x = 10$

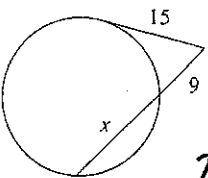
2)  $60^2 = 40(x + 40)$
 $3600 = 40x + 2304$
 $x = 27$

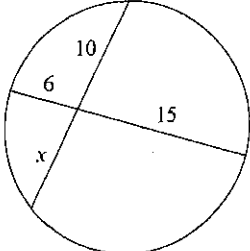
3)  $16(15) = 10x$
 $x = 24$

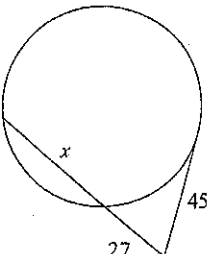
4)  $9(x + 9) = 8(8)$
 $9x + 81 = 64$
 $9x = -17$
 $x = -1$

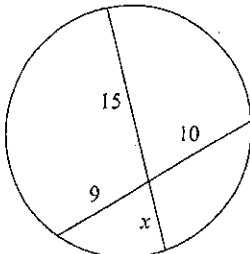
5)  $9(x + 9) = 10(27)$
 $9x + 81 = 270$
 $x = 21$

6)  $9(x + 9) = 8(27)$
 $9x + 81 = 216$
 $x = 15$

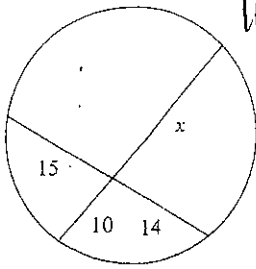
7)  $15^2 = 9(x + 9)$
 $225 = 9x + 81$
 $x = 16$

8)  $10x = 6(15)$
 $10x = 90$
 $x = 9$

9)  $45^2 = 27(x + 27)$
 $x = 48$

10)  $15x = 90$
 $x = 6$

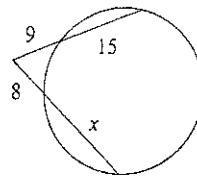
11)



$$10x = 210$$

$$\boxed{x=21}$$

12)

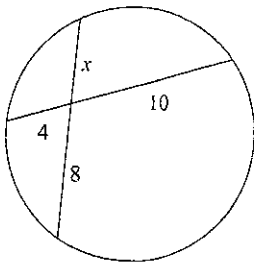


$$9(24) = 8(x+8)$$

$$216 = 8x + 64$$

$$\boxed{x=19}$$

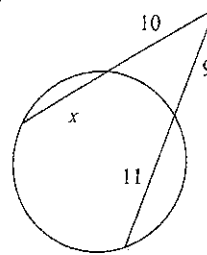
13)



$$8x = 40$$

$$\boxed{x=5}$$

14)

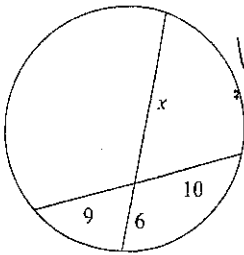


$$10(x+10) = 9(20)$$

$$10x + 100 = 180$$

$$\boxed{x=8}$$

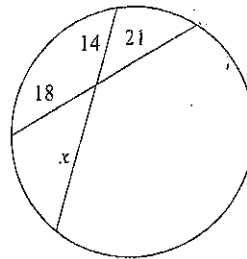
15)



$$6x = 90$$

$$\boxed{x=15}$$

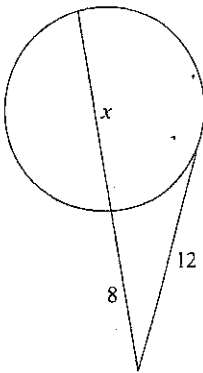
16)



$$14x = 378$$

$$\boxed{x=27}$$

17)

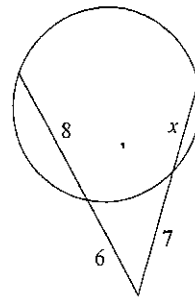


$$12^2 = 8(x+8)$$

$$144 = 8x + 64$$

$$\boxed{x=10}$$

18)

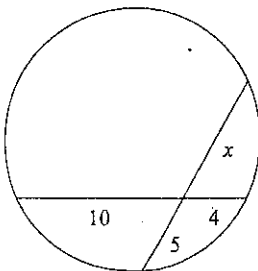


$$6(14) = 7(x+7)$$

$$84 = 7x + 49$$

$$\boxed{x=5}$$

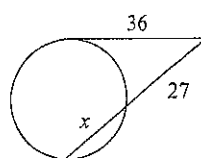
19)



$$5x = 40$$

$$\boxed{x=8}$$

20)



$$36^2 = 27(x+27)$$

$$1296 = 27x + 729$$

$$\boxed{x=21}$$