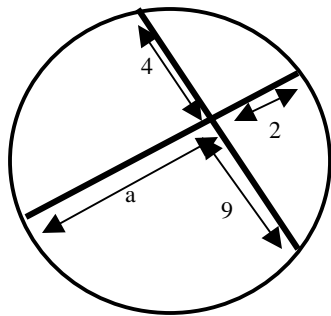
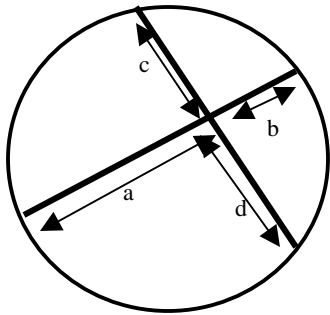


Intersecting chord theorem

$$(a)(b) = (c)(d)$$



$$(a)(b) = (c)(d)$$

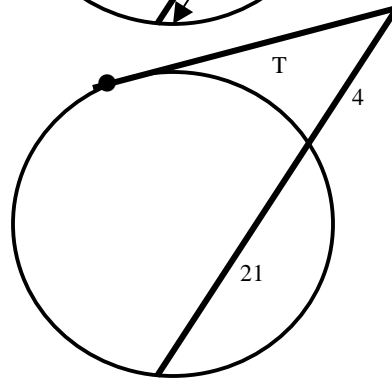
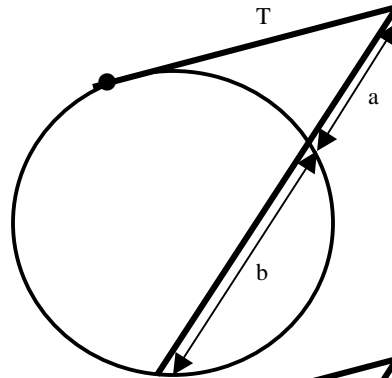
$$(a)(2) = (4)(9)$$

$$2a = 36$$

$$a = 18$$

Tangent - Secant theorem

$$T^2 = a (a + b)$$



$$T^2 = a (a + b)$$

$$T^2 = 4(4+21)$$

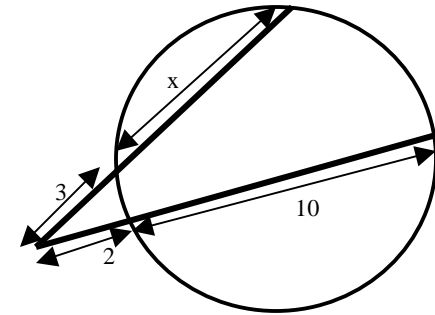
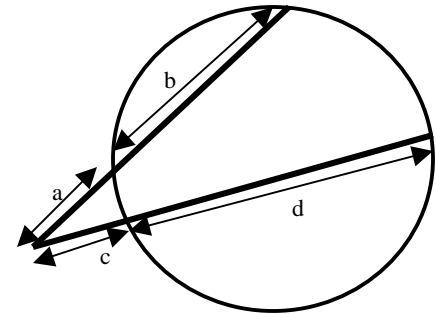
$$T^2 = 4(25)$$

$$T^2 = 100$$

$$T = 10$$

Secant - secant theorem

$$a (a + b) = c (c + d)$$



$$a (a + b) = c (c + d)$$

$$3 (3 + x) = 2 (2 + 10)$$

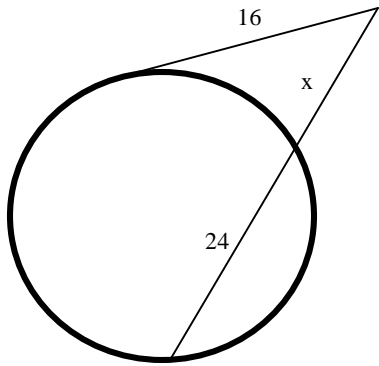
$$9 + 3x = 2 (12)$$

$$9 + 3x = 24$$

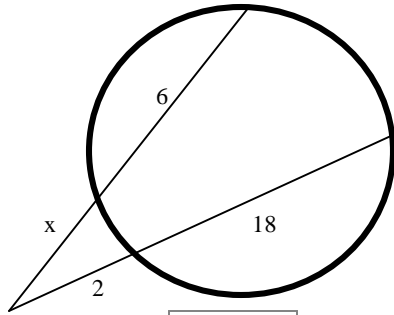
$$3x = 15$$

$$x = 5$$

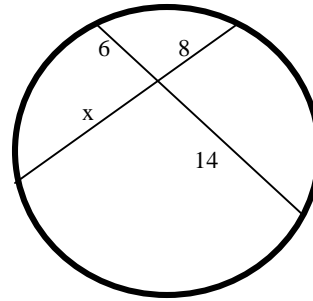
Mixed practice



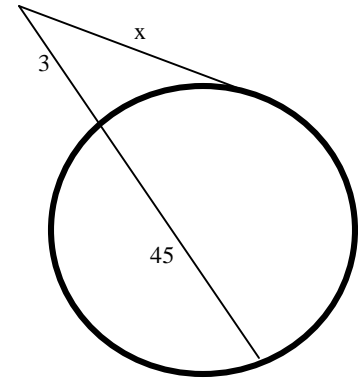
$x = 8$



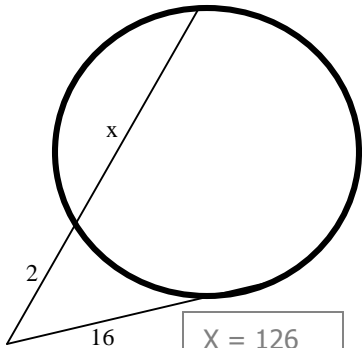
$x = 4$



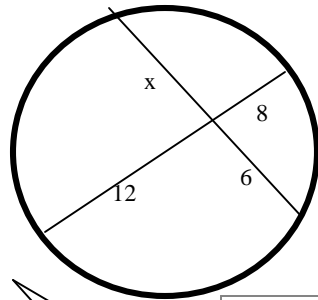
$x = 10.5$



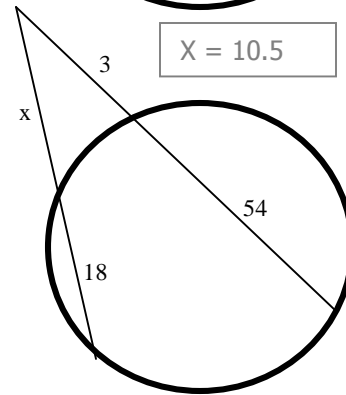
$x = 12$



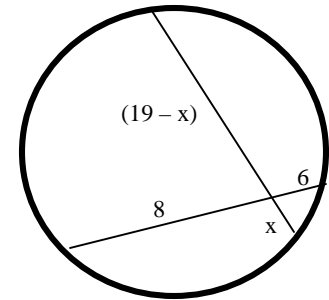
$x = 126$



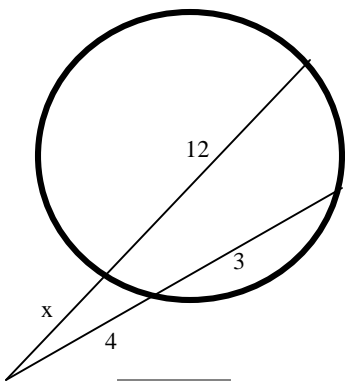
$x = 16$



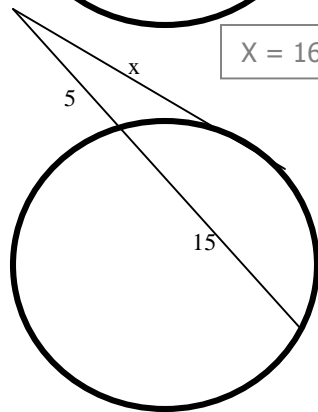
$x = 9$



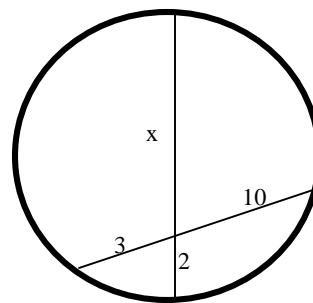
$x = 3$



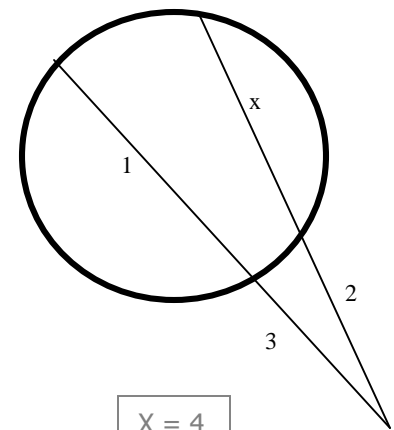
$x = 2$



$x = 10$



$x = 10$



$x = 4$