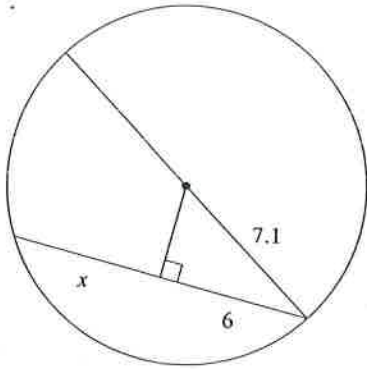


Arcs and Chords (9.2)

Name Day
 Date _____ Period _____

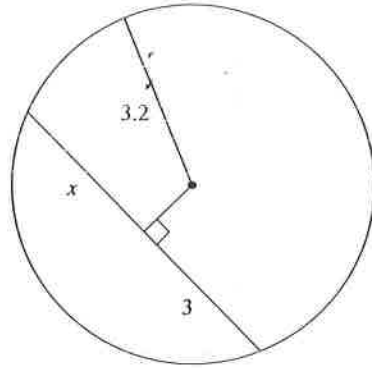
Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

1)



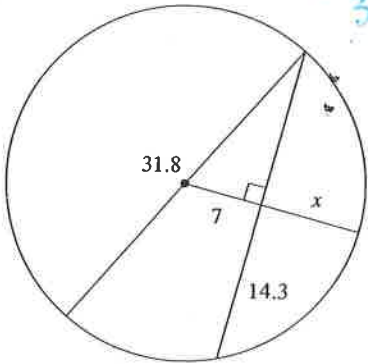
$x = 6$

2)



$x = 3$

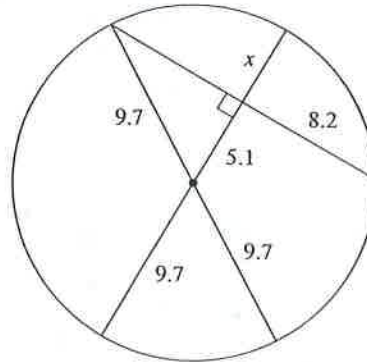
3)



diameter
 $31.8 \div 2 = 15.9$
radius
 $- 7$

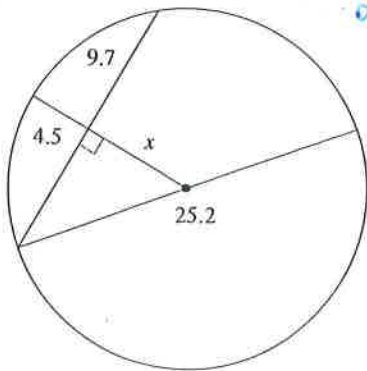
$x = 8.9$

4)



$x = 4.6$

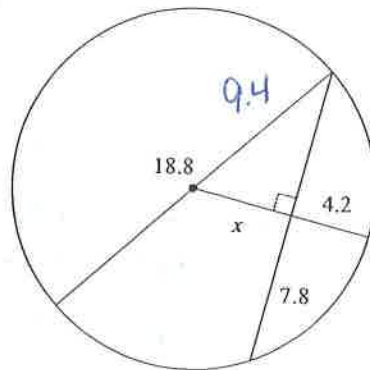
5)



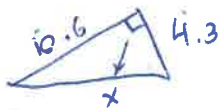
diameter
 $25.2 \div 2 = 12.6$
radius
 $- 4.5$

$x = 8.1$

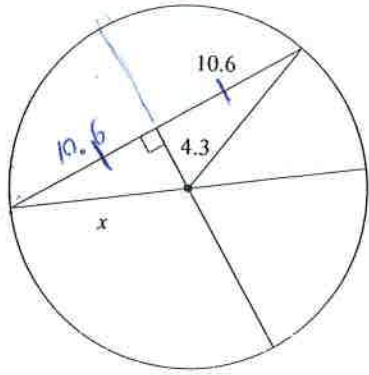
6)



$x = 5.2$



7)

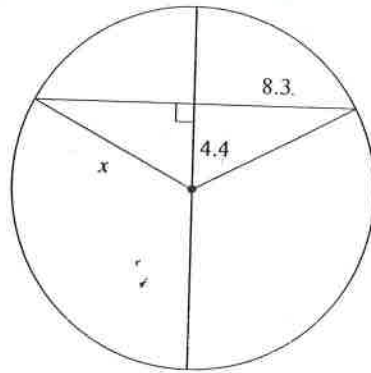


$$(4.3)^2 + (10.6)^2 = c^2$$

$$18.49 + 112.36 = c^2$$

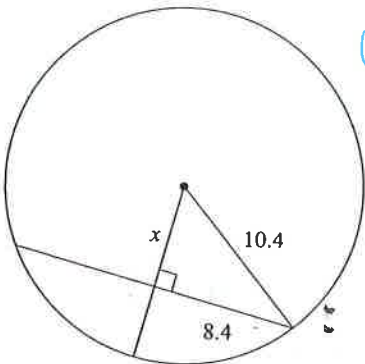
$$130.85 = c^2$$

$$c = 11.44$$



$$x = 9.4$$

9)



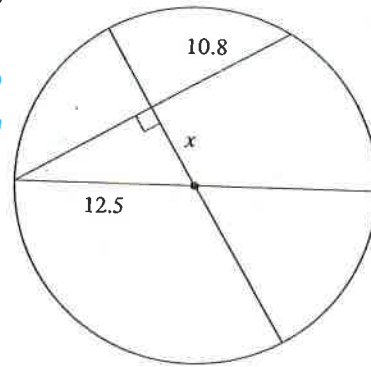
$$(8.4)^2 + x^2 = (10.4)^2$$

$$70.56 + x^2 = 108.16$$

$$\underline{-70.56 \quad -70.56}$$

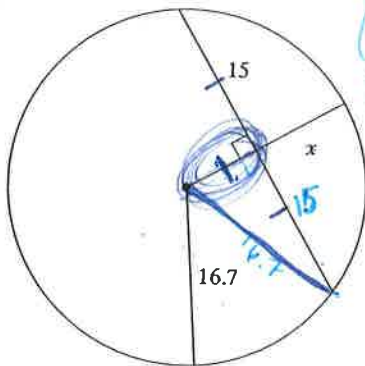
$$x^2 = 37.6$$

$$x = 6.13$$



$$x = 6.3$$

11)



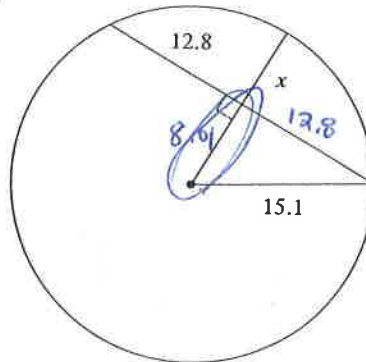
$$15^2 + b^2 = 16.7^2$$

$$225 + b^2 = 278.89$$

$$b^2 = 53.89$$

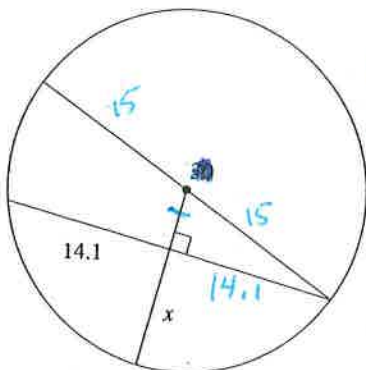
$$b = 7.34$$

$$16.7 - 7.34 = 9.36$$



$$x = 7.09$$

13)



$$a^2 + (14.1)^2 = (15)^2$$

$$a^2 + 198.81 = 225$$

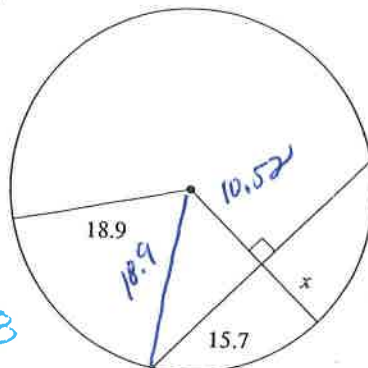
$$\underline{-198.81 \quad -198.81}$$

$$a^2 = 26.19$$

$$a = 5.12$$

$$\text{radius } 15 - 5.12 = 9.88$$

$$x = 9.88$$



$$x = 8.38$$