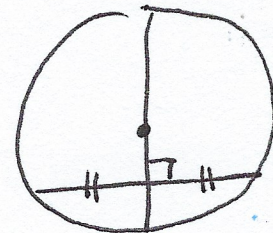


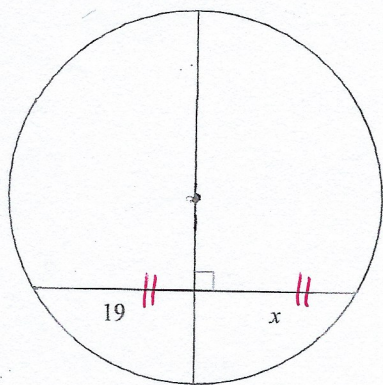
ch-10.3

Diameter Chord Theorem (Radius and chord thm)

If a diameter (or radius) is perpendicular (90°) to a chord then it bisects the chord and its arc.

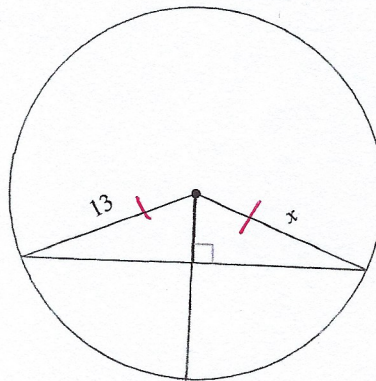


#1



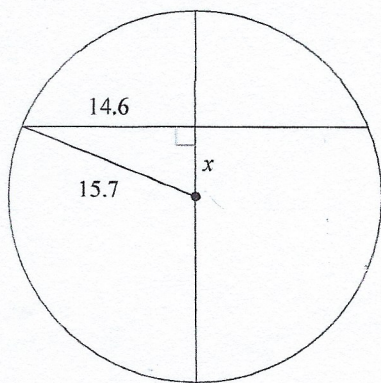
$x = 19$

#2



$x = 13$

#3



$$x^2 + 14.6^2 = 15.7^2$$

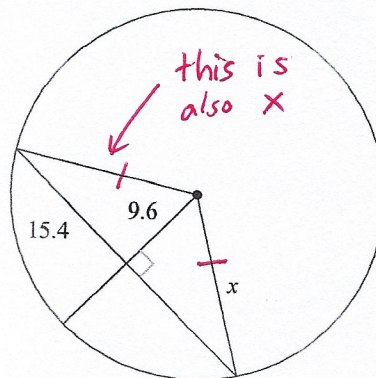
$$x^2 + 213.16 = 246.49$$

$$x^2 = 246.49 - 213.16$$

$$x^2 = 33.33$$

$$x = \sqrt{33.33} = \boxed{5.8}$$

#4



$$15.4^2 + 9.6^2 = x^2$$

$$237.16 + 92.16 = x^2$$

$$329.32 = x^2$$

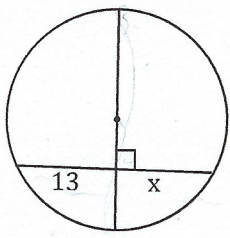
$$\sqrt{329.32} = x$$

$$\boxed{18.1} = x$$

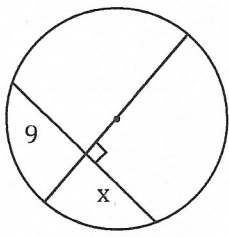
Name: _____

Find the missing length or measure....

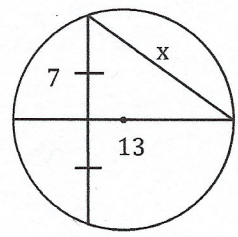
1.



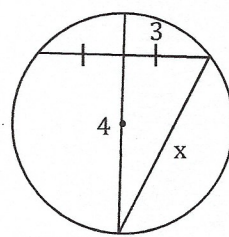
2.



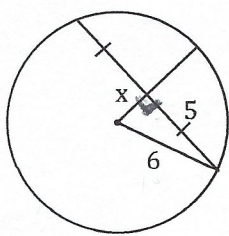
3.



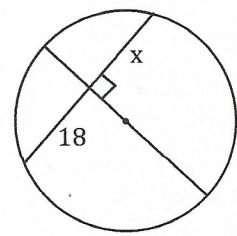
4.



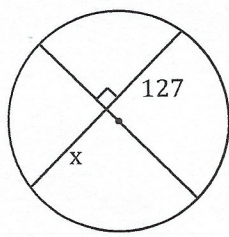
5.



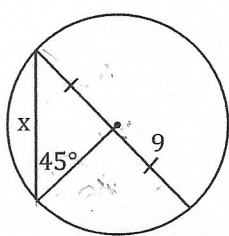
6.



7.



8.



Bubble all the correct answers from above. Don't bubble incorrect answers.

- 13.67 4
 5
 $9\sqrt{2}$ 19
 13
 4.32° 18
 9
 136 127 3.32 6
 14.76