Pg. 776 HW Answers

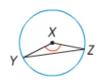
In Exercises 6 and 7, the circles are congruent. What can you conclude?

See Problem 1.

See Problem 2.

6.



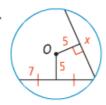


7. E F G

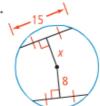


Find the value of x.

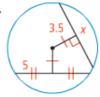
8.



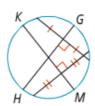
9.



10.



11. In the diagram at the right, GH and KM are perpendicular bisectors of the chords they intersect. What can you conclude about the center of the circle? Justify your answer.



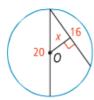
See Problems 3 and 4.

12. In $\bigcirc O$, \overline{AB} is a diameter of the circle and $\overline{AB} \perp \overline{CD}$. What conclusions can you make?



Algebra Find the value of x to the nearest tenth.

13.

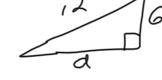


14.



15.

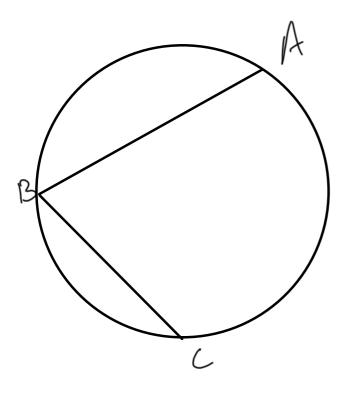




$$6^{2} + a^{2} = 1a^{2}$$

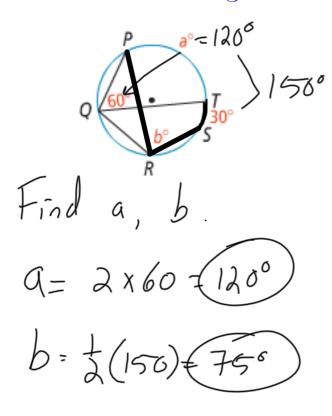
$$0 = 10.4 \times 2$$

inscribed - inside a circle

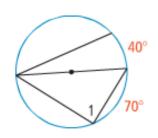


inscribed angle: an angle whose verter is on a circle and sides are choods (LABC)

intercepted arc: the are whose endpoints are the endpoints of an inscribed angle (AC)



106°
$$\frac{1}{4}$$
 $\frac{100°}{64°}$ $\frac{1}{2}$ $\frac{1}$



Find 21.

21=90°

inscribed in a semizircle.

70°

Find 22.

L2=38°

Shares the

Same arc

1 60° 1 420° 3 80°

21=90°

L3=(90°)

14 = 30 +40 760

12= 180-70=(110°)

In the diagram, \overrightarrow{SR} is a tangent to the circle at Q. If $\widehat{mPMQ} = 212$, what is $m \angle PQR$?

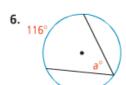
Option (

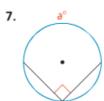
If
$$\rho m_0 = 212$$

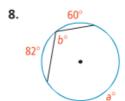
then $\rho Q = 360-212$
 $\rho Q = 148^\circ$
 $2 \rho Q R = \frac{1}{2} (148^\circ)$

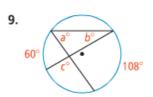
Find the value of each variable. For each circle, the dot represents the center.

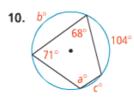
See Problems 1 and 2.

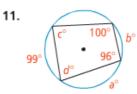


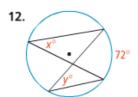


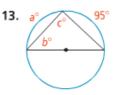


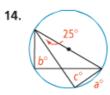


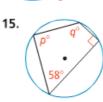






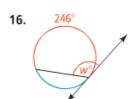


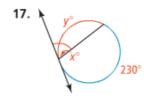


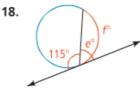


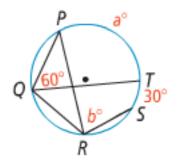
Find the value of each variable. Lines that appear to be tangent are tangent.

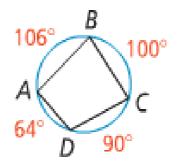


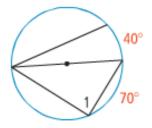


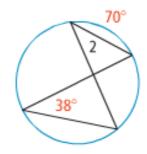


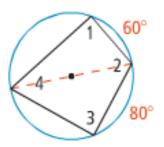




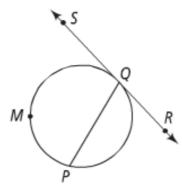








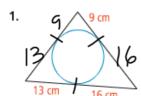
In the diagram, \overrightarrow{SR} is a tangent to the circle at Q. If $\widehat{mPMQ} = 212$, what is $m \angle PQR$?

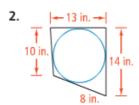


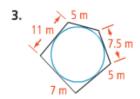
12.1 - 12.3 Practice

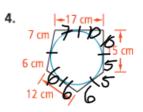
Name______ Date______ Per._____

Each polygon below circumscribes a circle, find the perimeter of the polygon.









Find the value of x in each circle.





6.



7.



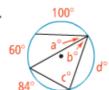
8.



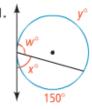
Find the value of each variable. Lines that appear to be tangent are tangent. The dot represents the center of the circle.



10.



11.



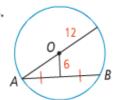
12.



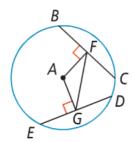
Find \widehat{mAB} .



14.



15. Use the diagram below to explain why $\angle AFG \cong \angle AGF$.



Challenge. Find the measure of each lettered angle in the diagram below.

