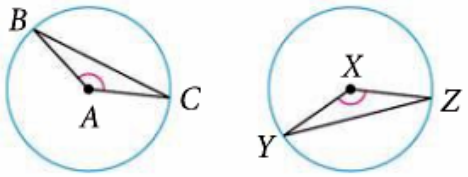
Name:_____Period:_____

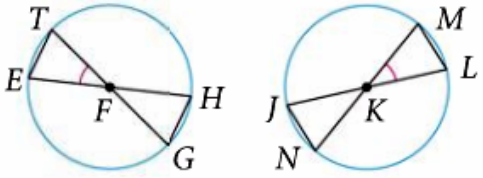
12-2 Chords and Arcs

In Exercises 1 and 2, the circles are congruent. What can you conclude?

1.

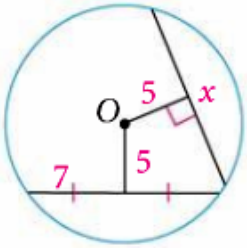


2.

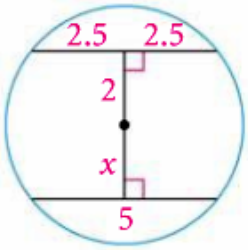


Find the value of x.

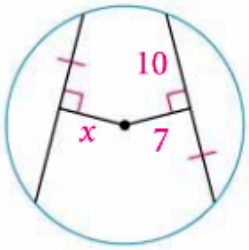
3.



4.



5.



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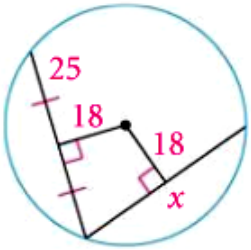

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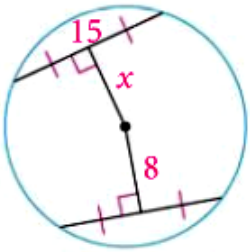
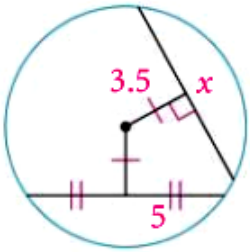
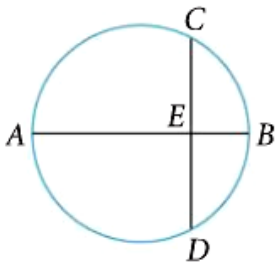


8.



Use the diagram at the right to complete Exercises 9 and 10.

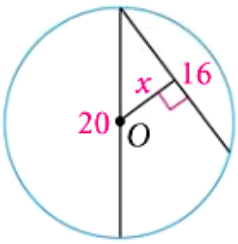


9. Given that $\overline{AB}$ is a diameter of the circle and $\overline{AB} \perp \overline{CD}$, then **a.** ? ≅ **b.** ? and **c.** ? ≅ **d.** ?.

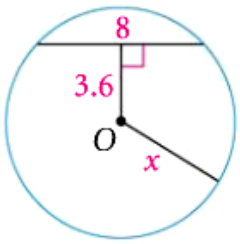
10. Given that $\overline{AB}$ is the perpendicular bisector of $\overline{CD}$, then $\overline{AB}$ contains ?.

Algebra **Find the value of x to the nearest tenth.**

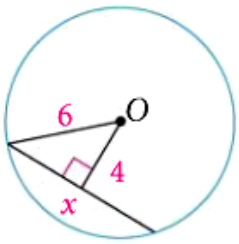
11.



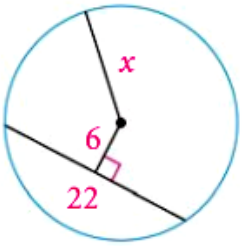
12.



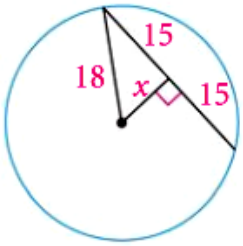
13.



14.



15.



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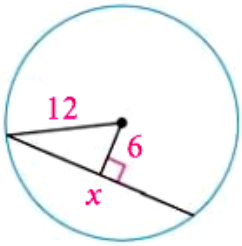
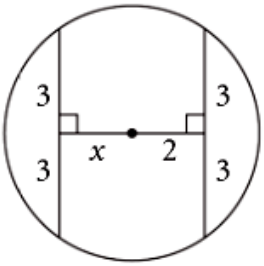


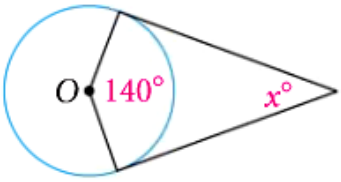
42. Find the value of x in the figure at the right.

(A) 1
(B) 2
(C) 3
(D) 4



Assume that lines that appear to be tangent are tangent. O is the center of each circle. Find the value of x to the nearest tenth.

47.



48.