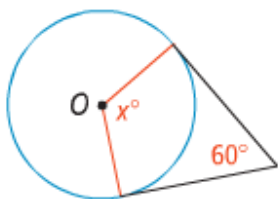


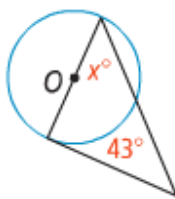
**Algebra** Lines that appear to be tangent are tangent.  $O$  is the center of each circle. What is the value of  $x$ ?

← See Probl

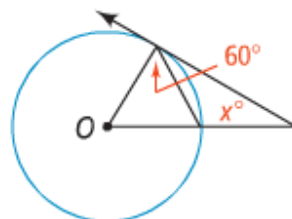
6.



7.

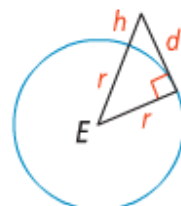


8.



**Earth Science** The circle at the right represents Earth. The radius of Earth is about 6400 km. Find the distance  $d$  to the horizon that a person can see on a clear day from each of the following heights  $h$  above Earth. Round your answer to the nearest tenth of a kilometer.

← See Probl



9. 5 km

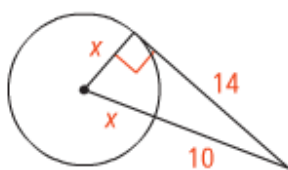
10. 1 km

11. 2500 m

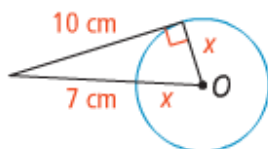
**Algebra** In each circle, what is the value of  $x$ , to the nearest tenth?

← See Probl

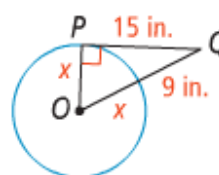
12.



13.



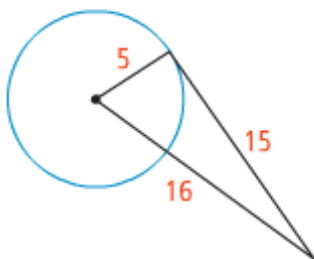
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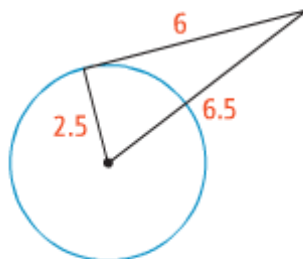
Determine whether a tangent is shown in each diagram. Explain.

← See Probl

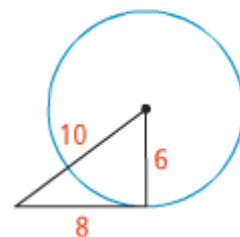
15.



16.



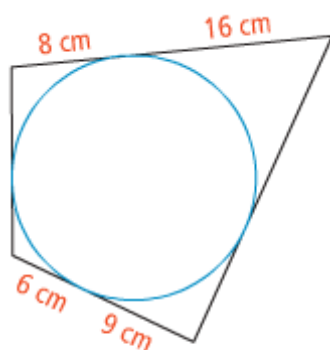
17.



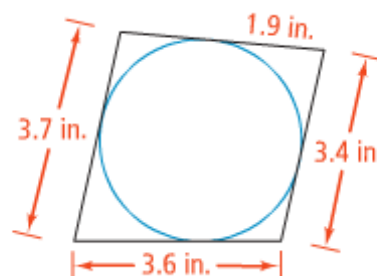
Each polygon circumscribes a circle. What is the perimeter of each polygon?

← See Probl

18.

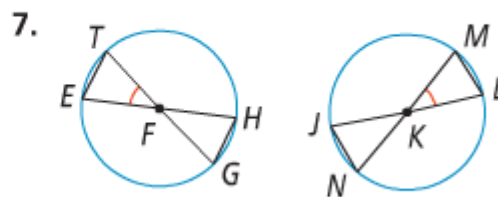
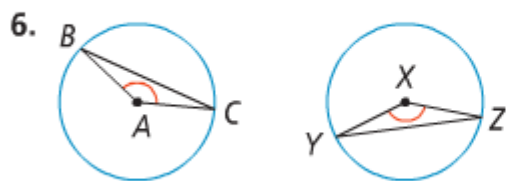


19.



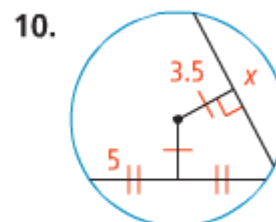
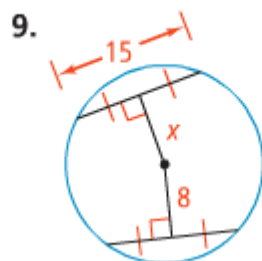
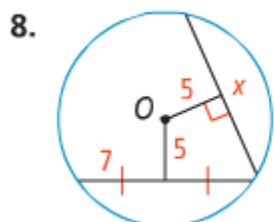
In Exercises 6 and 7, the circles are congruent. What can you conclude?

◀ See Problem

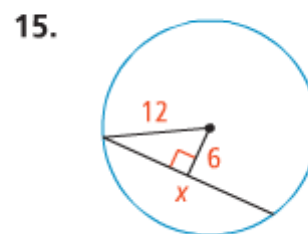
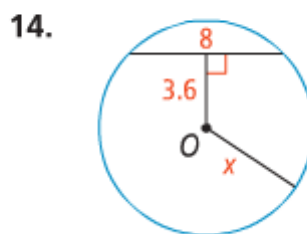
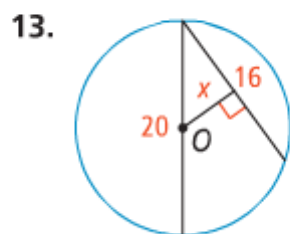


Find the value of  $x$ .

◀ See Problem

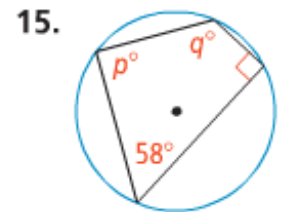
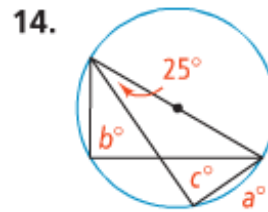
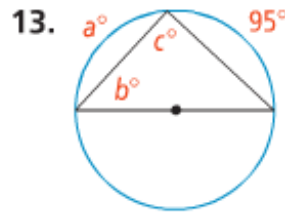
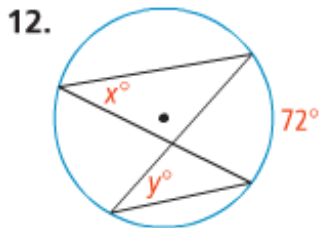
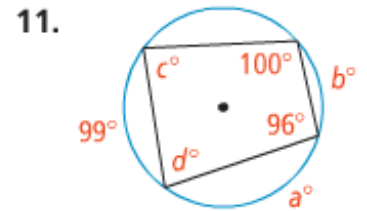
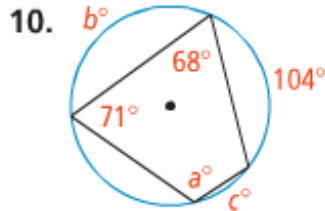
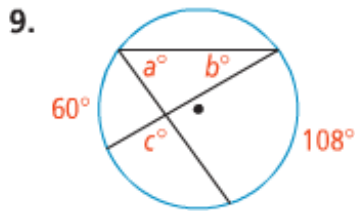
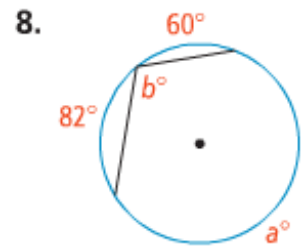
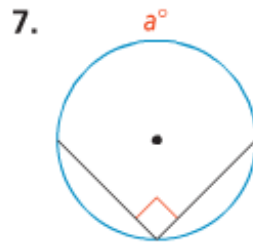
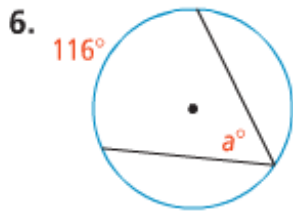


**Algebra** Find the value of  $x$  to the nearest tenth.



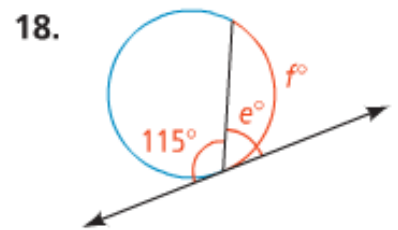
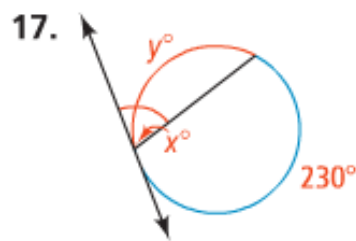
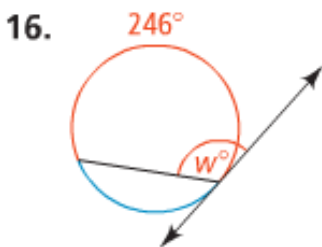
Find the value of each variable. For each circle, the dot represents the center.

← See Problems 1 an



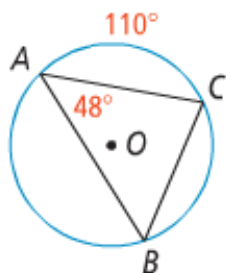
Find the value of each variable. Lines that appear to be tangent are tangent.

← See Pro

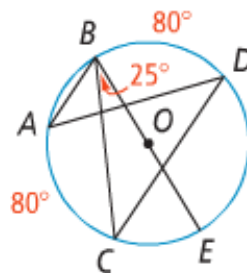


Find each indicated measure for  $\odot O$ .

20. a.  $m\widehat{BC}$   
 b.  $m\angle B$   
 c.  $m\angle C$   
 d.  $m\widehat{AB}$



21. a.  $m\angle A$   
 b.  $m\widehat{CE}$   
 c.  $m\angle C$   
 d.  $m\angle D$   
 e.  $m\angle ABE$

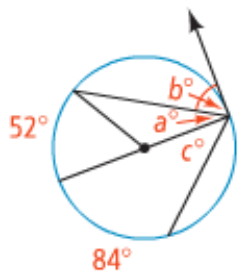


22. **Think About a Plan** What kind of trapezoid can be inscribed in a circle? Justify your response.

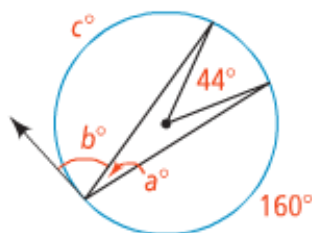
- Draw several diagrams to make a conjecture.
- How can parallel lines help?

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

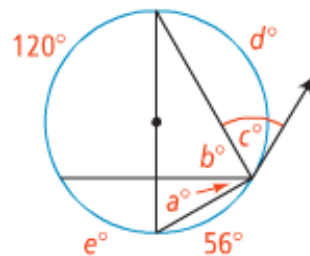
23.



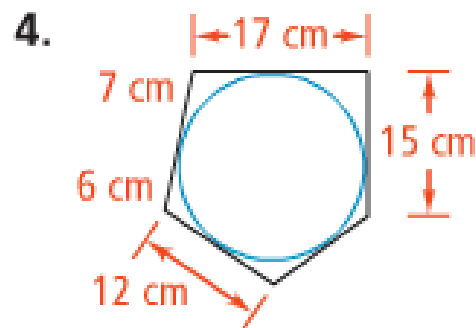
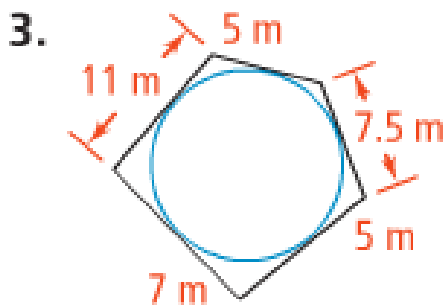
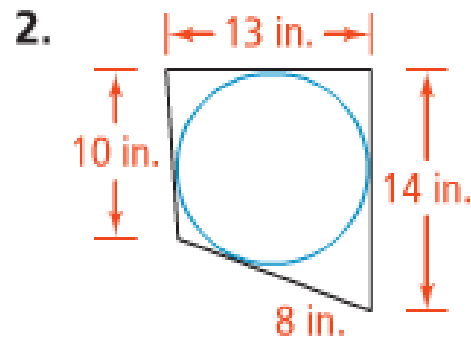
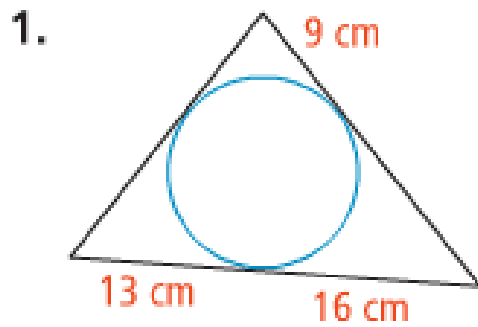
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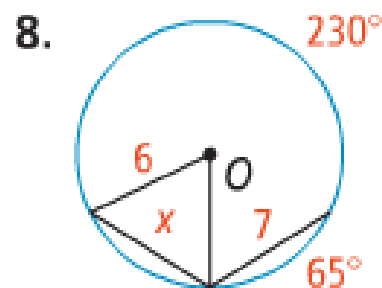
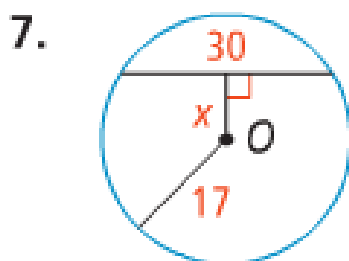
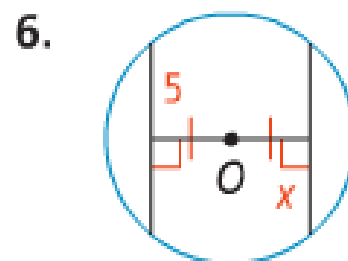
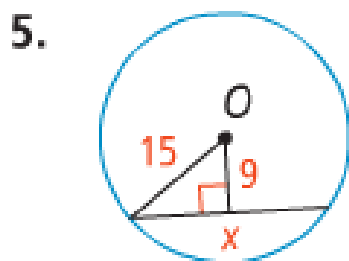
25.



Each polygon below circumscribes the circle. Find the perimeter of the polygon.

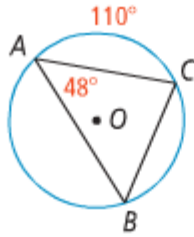


**Algebra** Find the value of  $x$  in  $\odot O$ .

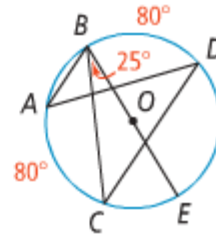


Find each indicated measure for  $\odot O$ .

20. a.  $m\widehat{BC}$   
 b.  $m\angle B$   
 c.  $m\angle C$   
 d.  $m\widehat{AB}$



21. a.  $m\angle A$   
 b.  $m\widehat{CE}$   
 c.  $m\angle C$   
 d.  $m\angle D$   
 e.  $m\angle ABE$

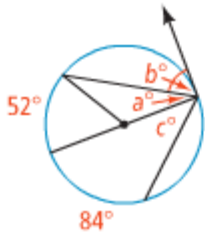


22. **Think About a Plan** What kind of trapezoid can be inscribed in a circle? Justify your response.

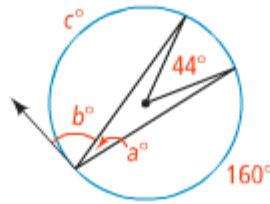
- Draw several diagrams to make a conjecture.
- How can parallel lines help?

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

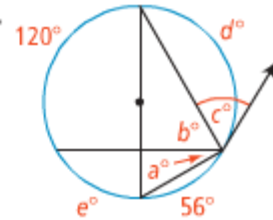
23.



24.

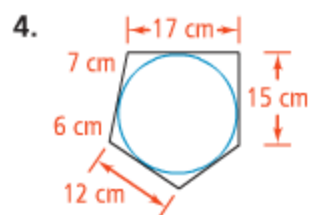
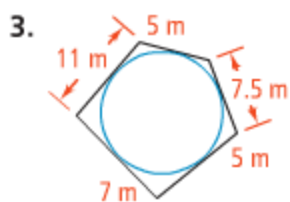
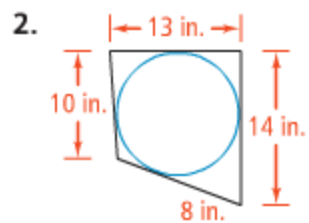
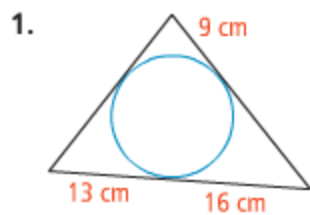


25.



## Do you know **HOW?**

Each polygon below circumscribes the circle. Find the perimeter of the polygon.



**Algebra** Find the value of  $x$  in  $\odot O$ .

