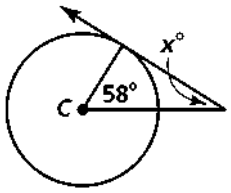
Name _____ Class _____ Date _____

Practice 12-1

Tangent Lines

Assume that lines that appear to be tangent are tangent. *C* is the center of each circle.
Find the value of *x*.

1.



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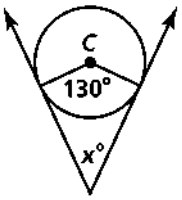

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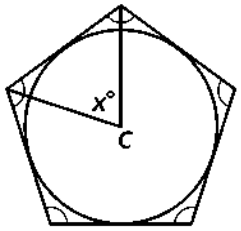
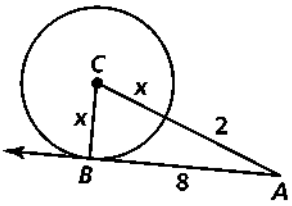


In each diagram, $\overrightarrow{AB}$ is tangent to ⊙C at *B*. Find the value of *x*.

4.



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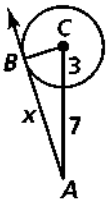

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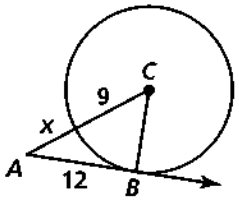
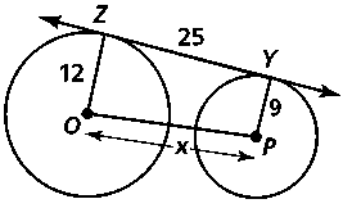


In each diagram, $\overleftrightarrow{ZY}$ is tangent to circles *O* and *P*. Find the value of *x*.

7.



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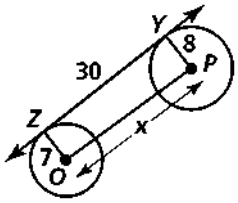

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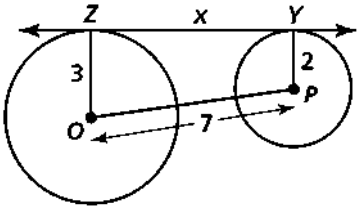
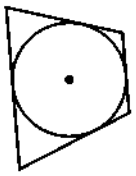


Tell whether each polygon is inscribed in or circumscribed about the circle.

10.



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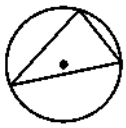

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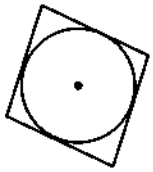
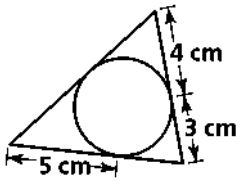


In each diagram, a polygon circumscribes a circle. Find the perimeter of each polygon.

13.



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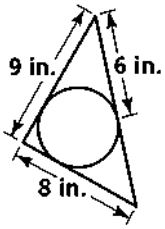

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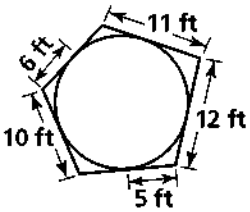

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