Name:	

Geometry: Period _	
Ms. Pierre	
Date:	

Tangents Part II

Today's Objective

SWBAT use properties of tangents to identify tangent lines and find the lengths of missing segments.

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More than one line can be tangent to a circle.



Example 1

 \overline{AB} and \overline{CB} are tangent to $\bigcirc D$. Find the value of *x*.



Check for Understanding

Find the value of x. Assume that segments that appear to be tangent are tangent.





Example 2

A graphic designer is giving directions to create a larger version of the triangular logo shown below. If $\triangle ABC$ is circumscribed about $\bigcirc G$, find the perimeter of $\triangle ABC$.



☑ Check for Understanding

Quadrilateral RSTU is circumscribed about \bigcirc J. If the perimeter is 18 units find *x*.





1. Find the value of *x*. Assume that segments that appear to be tangent are tangent.



2. Find the value of *x*. Then find the perimeter. Assume that segments that appear to be tangent are tangent.



Independent Practice

Find x. Assume that segments that appear to be tangent are tangent. Round to the nearest tenth if necessary.



Find the value of *x*. Then find the perimeter.



Home Work

Determine whether \overline{XY} is tangent to the given circle. Justify your answer.





Find the value of x. Then find the perimeter for question 3 **onl** Assume that segments that appear to be tangent are tangent.



