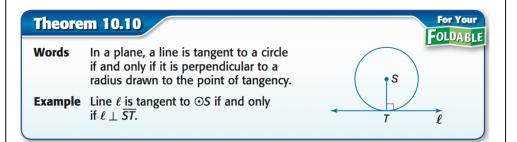
Name:	#
Geometry: Period	
Ms. Pierre	
Date:	

### **Tangents Part I**

### **Today's Objective**

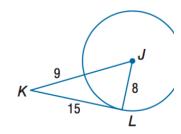
SWBAT use properties of tangents to identify tangent lanes and find he lengths of missing segments.

The shortest distance from a tangent to the center of a circle is the radius drawn to the point of tangency



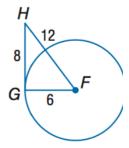
### **Example 1**

 $J\overline{L}$  is a radius of  $\odot$ J. Determine whether  $\overline{KL}$  is tangent to  $\odot$ J. Justify your answer.



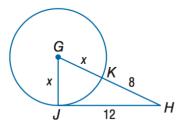
# ☑ Check for Understanding

Determine whether  $\overline{GH}$  is tangent to  $\bigcirc F$ . Justify your answer



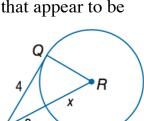
## **Example 2**

 $\overline{JH}$  is tangent to  $\bigcirc G$  at J. Find the value of x.



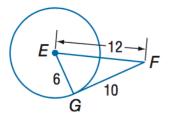
# Check for Understanding

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

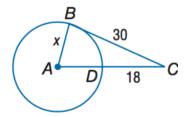


# Guided Practice

1. Determine whether  $\overline{FG}$  is tangent to  $\odot E$ . Justify your answer



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

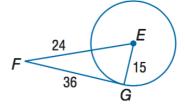




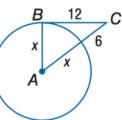
# Independent Practice

Determine whether  $\overline{FG}$  is tangent to  $\odot E$ . Justify your answer.

1.



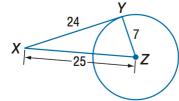
2. Find the value of x. Assume that segments that appear to be tangent are tangent.

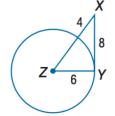


## Home Work

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

1.





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

3.

