Learning Objective(s) _____ :

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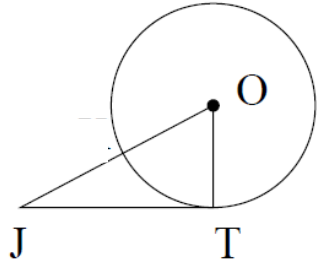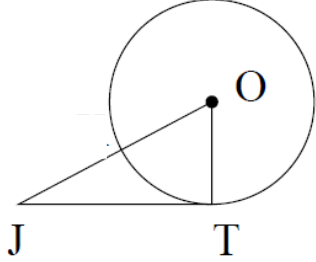| **Main Ideas/ Questions**	**Notes**
Tangent Characteristics	• If a line is tangent to a circle, then the tangent and the radius are _____
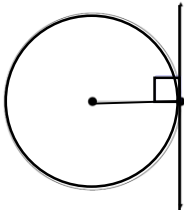
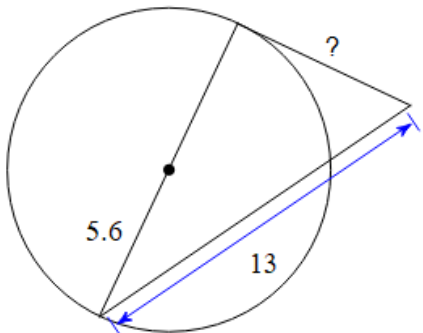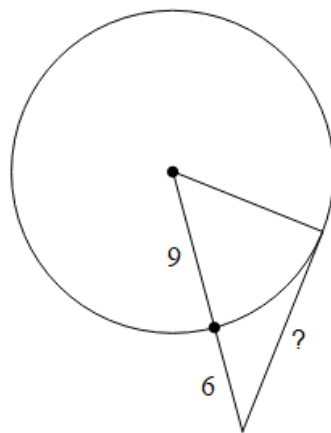|	
Examples	1. JT is tangent to Circle O. If JT = 12 and OT = 5, what is JO?　　　2. If JT = 12 and JO = 20, what is the radius?

Solve for the missing length. Assume that lines which appear to be tangent are tangent.

3.

4.

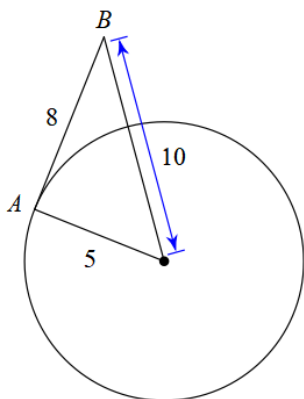| Main Ideas/ Questions	Notes
Examples	**Determine if BA is a tangent line**
	5. 6.

<u>**Main Ideas/ Questions**</u>
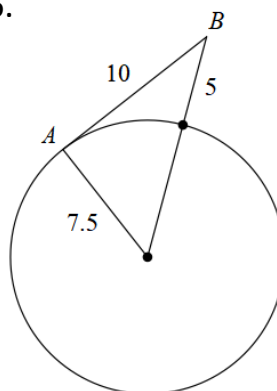
Examples

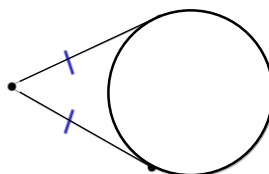**2nd Tangent Property**

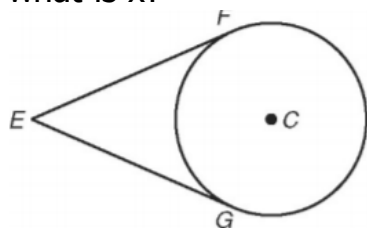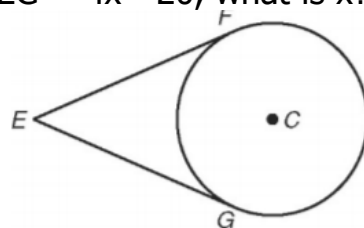<u>**Notes**</u>

Determine if BA is a tangent line

5.

6.

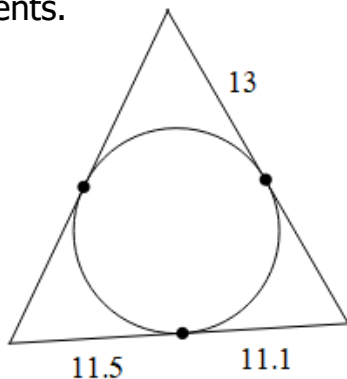- If two tangent lines are tangent to the _____ circle AND come from the same_____, then the tangent lengths are _____

1. If EF = 2x + 10 and EG = 20, what is x?
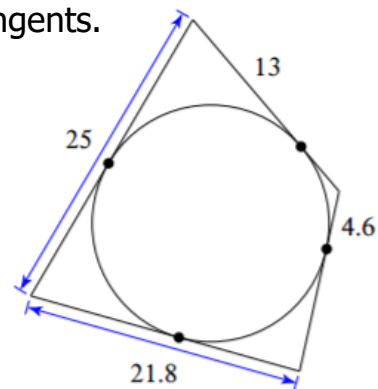
2. If EF = 2x + 10 and EG = 4x - 20, what is x?

3. a. Find the lengths of all the tangents.

b. What is the perimeter of the triangle?

4. a. Find the lengths of all the tangents.

b. What is the perimeter of the quadrilateral?

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