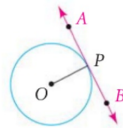


Theorem 12-1

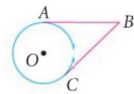
If a line is tangent to a circle, then the line is perpendicular to the radius drawn to the point of tangency.

$$\overleftrightarrow{AB} \perp \overline{OP}$$

**Theorem 12-3**

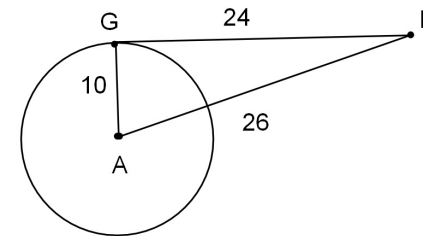
The two segments tangent to a circle from a point outside the circle are congruent.

$$\overline{AB} \cong \overline{CB}$$

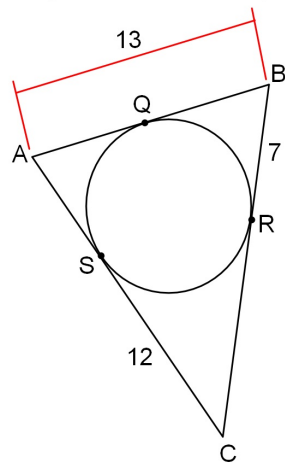


Bellwork Monday, June 9, 2014

1. Is the line tangent to circle A?



2. Find the perimeter of triangle ABC. The sides of the triangle are tangent to the circle at points Q, R, and S.



3. Use coordinate geometry to find the best name for quadrilateral LMNP

L (30,18) M(36,-12) N(-24,-24) P(-30,6)