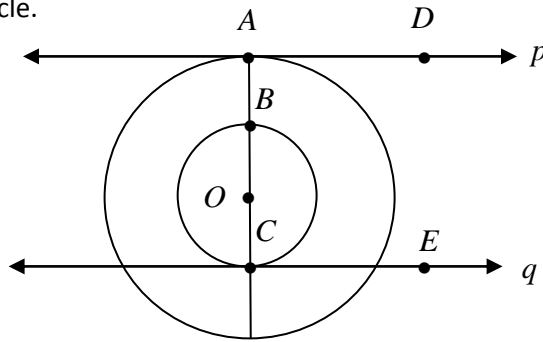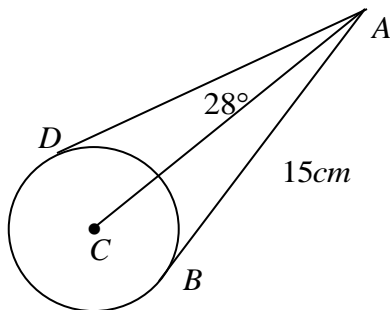Name: _____ Period: _____ Date: _____

# Tangent Lines Bell Work

Solve problems involving tangent of a circle.



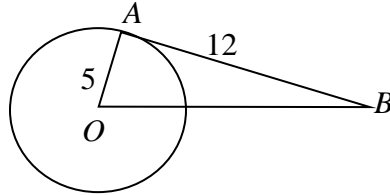Consider a pair of concentric circles with center O and complete each statement.

1. Suppose that p is tangent to the circle. Then $m\angle OAD =$ _____.
2. Suppose that $m\angle OCE = 90°$. Then q is _____ to the circle at C.
3. Suppose that q is tangent to the circle at C and that p‖q. Then $m\angle CAD =$ _____.



AB and AD are tangent segments from A. Complete each statement.

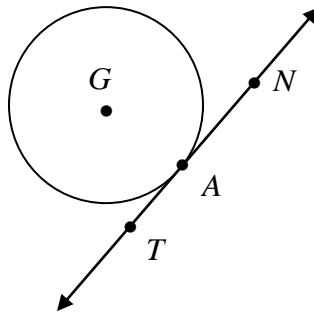4. AD = _____

5. $m\angle BAC =$ _____

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# Tangent Lines Bell Work



AB is a tangent segment from B. Complete each statement.

6. $m\angle OAB =$ _____

7. If AB = 12 and OA = 5, then OB = _____.

8. If $m = \angle ABO = 25°$, then $m\angle AOB =$ _____.



9. Tell whether TN is a tangent to ⊙G at A if GA = 12, AN = 5 and GN =13.

10. Given that GA = 4.3, AT = 3.2 and GT =5, tell whether TN is a tangent to ⊙G at A.

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