

Math 9

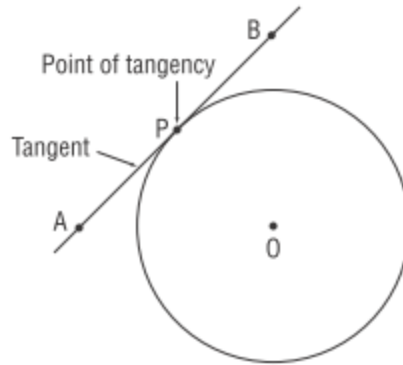
Name: _____

9.3 – Properties of Tangents to Circles

Date: _____

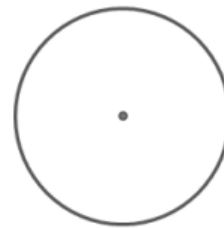
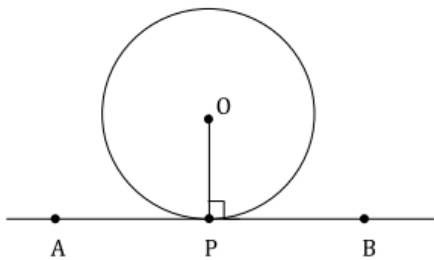
TANGENT : _____.

POINT of TANGENCY : _____.

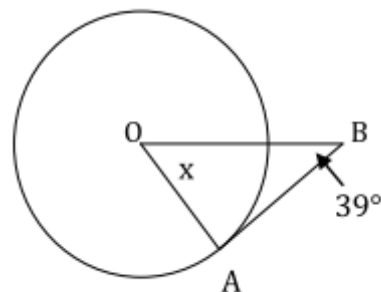
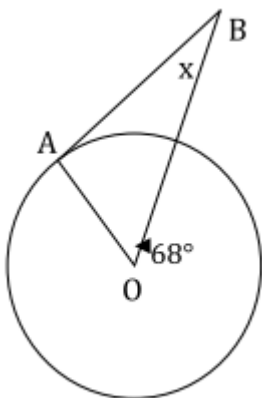


Tangent-Radius Property

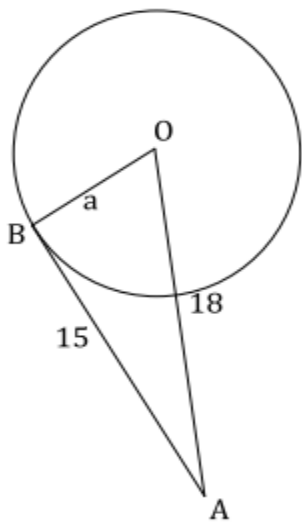
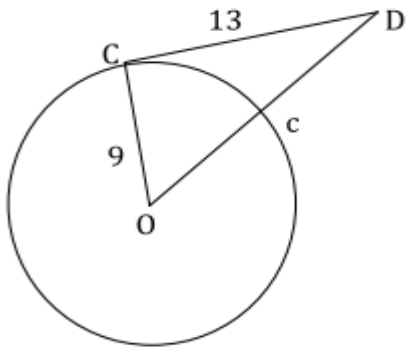
A **TANGENT** to a Circle is always at _____ to the _____ of the Circle at the _____.



Ex. 1: Determine the value of angle x in each of the figures given below:



Ex. 2: Determine the length of each indicated side, below. Give reasons for your assumptions.



Ex. 3: (Review) A water pipe has a diameter of 30 cm . The water level in the pipe is below the center of the pipe. The surface of the water has a cross-sectional length of 9 cm . Determine the maximum depth of the water correct to one tenth of a centimeter.

