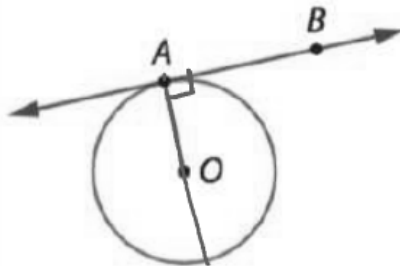


What you will learn about:
Properties of Circles

Tangents - Line, segment
or Ray that
intersects the circle
@ one point

Point of
tangency
Point where circle
and tangent intersect

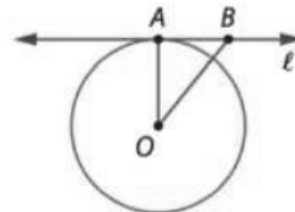
If a radius (diameter) intersects a tangent at the point of tangency then the radius (diameter) are perpendicular.



Points on the interior, exterior, or on the circle.

Refer to the figure on the right.

If line l is tangent to circle O at point A , the radius of the circle is 4 inches, and $AB = 3$ inches, what is the length BO ? Explain.



If $AB = 5$ cm, and $AO = 12$ cm, and $BO = 13$ cm, why is it correct to conclude that line l must be tangent to the circle at point A ?