## )nit 10

# Tangent to a Circle

#### Q: Define and draw tangent to a circle.

A tangent to a circle is the straight line which touches the circumference at a single point only and being produced does not cut it all. The point of tangency is also known as point of contact.

In figure  $\overrightarrow{AB}$  is tangent line to the circle at point of tangency T.

#### Q: Define a secant.

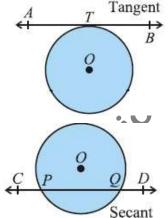
A secant is a straight line which cuts the circumference of a circle in two distinct points.

In the figure, the secant  $\overrightarrow{CD}$  cuts the circle at two distinct points P and Q.

### Q: What is meant by length of tangent.

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The length of tangent to a circle is measured from the given point to the point of tangency.



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