

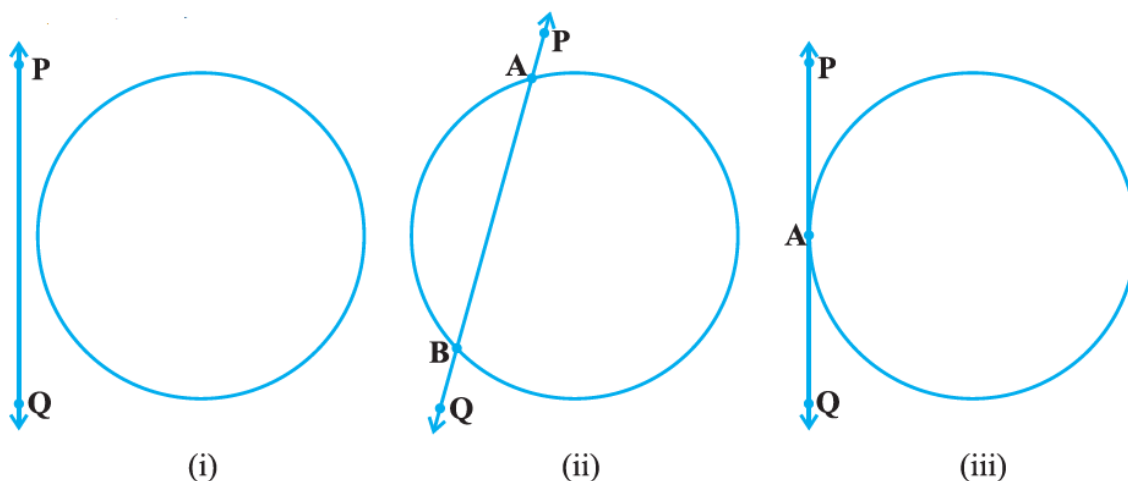
CHAPTER-10

TANGENTS OF A CIRCLE

In class IX, you have studied some of the properties of a circle, Here we shall define a tangent and a secant to a circle.

TANGENT: The line which intersect or touch circle at one point is called tangent. The point at which the line touches the circle is called **Point of Contact**. In the figure, AB is a tangent and P is point of contact.

‘There is one and only one tangent at one point of the circle’.



- There are infinite points on the circumference of the circle, So there are infinite tangents of the circle.
- There will be no tangent from the interior of the circle.
- There is only one tangent at a point on the circumference of the circle.
- There are two tangents drawn from point which is external to the circle.

SECANT: The line which intersects the circle at two points.

Table

<i>Sr. No.</i>	<i>Position of the point</i>	<i>Number of Tangents</i>
<i>1</i>	<i>Inside</i>	<i>Zero</i>
<i>2</i>	<i>On</i>	<i>One</i>
<i>3</i>	<i>Outside</i>	<i>Two</i>

Fill in the blanks:

1. There are tangents of a circle.
2. A tangent intersect circle at point(s).
3. The line which intersect circle at two points is called.....
4. A circle has parallel tangents.
5. The common point of tangent and circle is called
6. There are tangents drawn from a external point to the circle.

come-become-educated

37bhyaas♦