

R D Sharma Solutions For Class 10 Maths Chapter 10 -Circles

Exercise 10.1

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1. Fill in the blanks:

(i) The common point of tangent and the circle is called _____.

(ii) A circle may have _____ parallel tangents.

(iii) A tangent to a circle intersects it in _____ point.

(iv) A line intersecting a circle in two points is called a _____

(v) The angle between tangent at a point P on circle and radius through the point is ______ Solution:

(i) The common point of tangent and the circle is called <u>point of contact.</u>

- (ii) A circle may have two parallel tangents.
- (iii) A tangent to a circle intersects it in one point.
- (iv) A line intersecting a circle in two points is called a secant.

(v) The angle between tangent at a point P on circle and radius through the point is 90° .

2. How many tangents can a circle have? Solution:

A tangent is defined as a line intersecting the circle in one point. Since, there are infinite number of points on the circle, a circle can have many (infinite) tangents.