* Circle: - A circle is a collection of all paints in a plane which are at a constant distance from a fixed point. The constant distance is called the radius and the fixed point is called the Centre of the circle.

centre radius

* Secant: - A line which intersects a circle in two distinct points is called a secant to the circle.

* tangent: - A line meeting a circle only in one point is called a tangent to the circle at that point.

tangent to

+ Point of Contact: The point at which the tangent line intersects the circle is called the point of Contact.

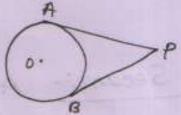
point of contact

There is no tangent passing through a point lying inside the circle.

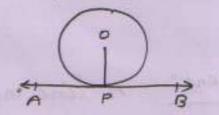
2) There is one and only one tangent passing through a point lying on a circle.

There are exactly two tangents & B

through a point outside a circle.

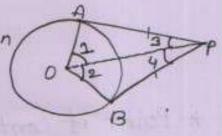


(4) The tangent at any point of a circle is perpendicular to the radius through the point of contact.



5) The 9th two tangents are decawn from an external point then,

from an external point of a Circle are equal.



They subtend equal angles at the centre.

(11) They are equally inclined to the line segment joining the contre to that point.

1. Infinitely many

= 1 one

(ii) Secant

(iii) Two

(1) Point of Contact.

3.) (niven that: A circle with centre 0.

incubich.

we know that

to the tangent of circle is the perpendicular to the tangent of circle.

In right sopa,

PQ= 1002-0PL

= 122-54

144-25



