

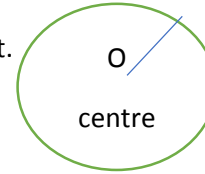
MIND MAP

Circles

The locus of a point equidistant from a fixed point.

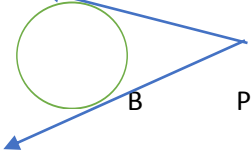
Fixed point is a centre and distance of the point

Fixed point is called radius of a circle.

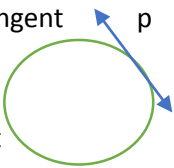


Facts

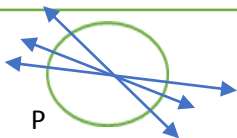
Two tangents can be drawn to a Circle from a point lying outside the circle.



One and Only one tangent Can be drawn to a Circle through a point Lying on the circle.

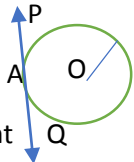


No tangent can be drawn to a circle From a point lying inside the circle .



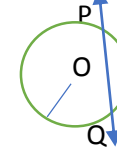
Tangent and tangent point

Only one common Point between circle A And PQ line. Tangent



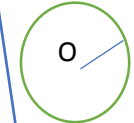
Secant

Two common points Between line PQ and circle .



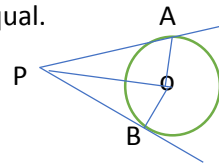
Non-Intersecting lines

No common Point Between line PQ and circle. Q

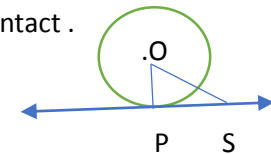


Theorems

The lengths of tangents drawn from An external point to a circle are equal.



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



PP PP

m