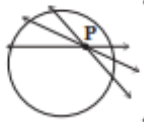
MIND MAPS
LEARNING MADE SIMPLE

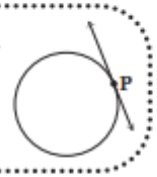
Circles

Facts

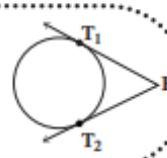
1. There is no tangent to a circle passing through a point lying inside the circle.



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

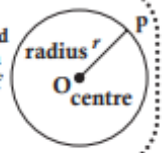


3. There are exactly two tangents to a circle through a point lying outside the circle.



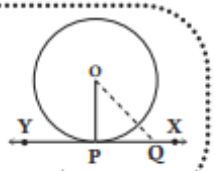
Definition

The locus of a point equidistant from a fixed point. Fixed Point is a centre & separation of points in the radius of circle.



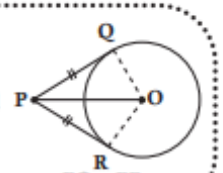
Theorems

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



$\angle OPQ = 90°$

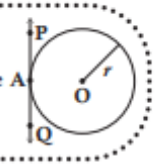
The lengths of tangents drawn from an external point to a circle are equal



PQ = PR

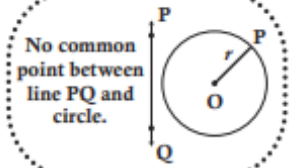
Tangent and tangent point

Only one common point between circle and PQ line.



Non-intersecting line

No common point between line PQ and circle.



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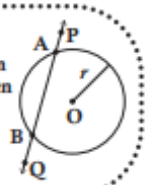
Two common points between line PQ and circle.