

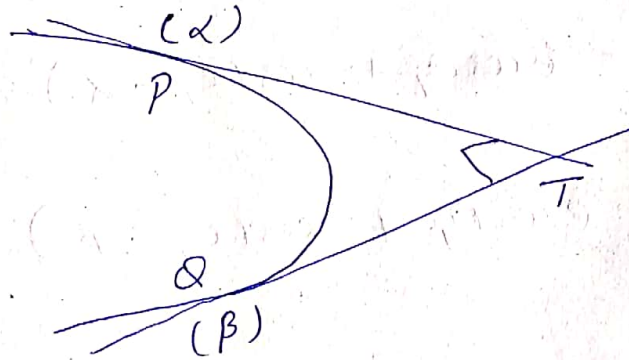
## Polar equations of conics

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Q

Find the equation of the director circle of the conic  $\frac{l}{r} = 1 + e \cos \theta$ .

Sol<sup>n</sup>:-Director circle

The locus of the point of intersection of a pair of tangents perpendicular to the conic is called director circle.



Let P and Q be two points on the conic such that the tangents drawn from ~~P and Q~~ at P and Q makes an angle of  $90^\circ$  at T.

That is  $\angle PTQ = 90^\circ$