



Q The Vertex of hyperbola is 30mm from its focus. Draw the curve using general (eccentricity) method, if the eccentricity is  $\frac{3}{2}$ . Draw a Normal and a tangent at point P on the curve, 35mm from directrix.

Sol<sup>n</sup> :-

$$CF = 50\text{mm}$$

$$VF = 30\text{mm}$$

$$e = \frac{3}{2}$$

NP is the Normal to point P and AP is the tangent.

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Q Construct a Parabola whose base is 90mm and axis is 80mm using rectangular method. Then Draw Tangent and Normal on curve at any point P. (other than Vertex)

Soln!

$AB = 90\text{mm}$

$EF = 80\text{mm}$

HN is the tangent at point  $P_3$  while

$P_3O$  is the Normal

