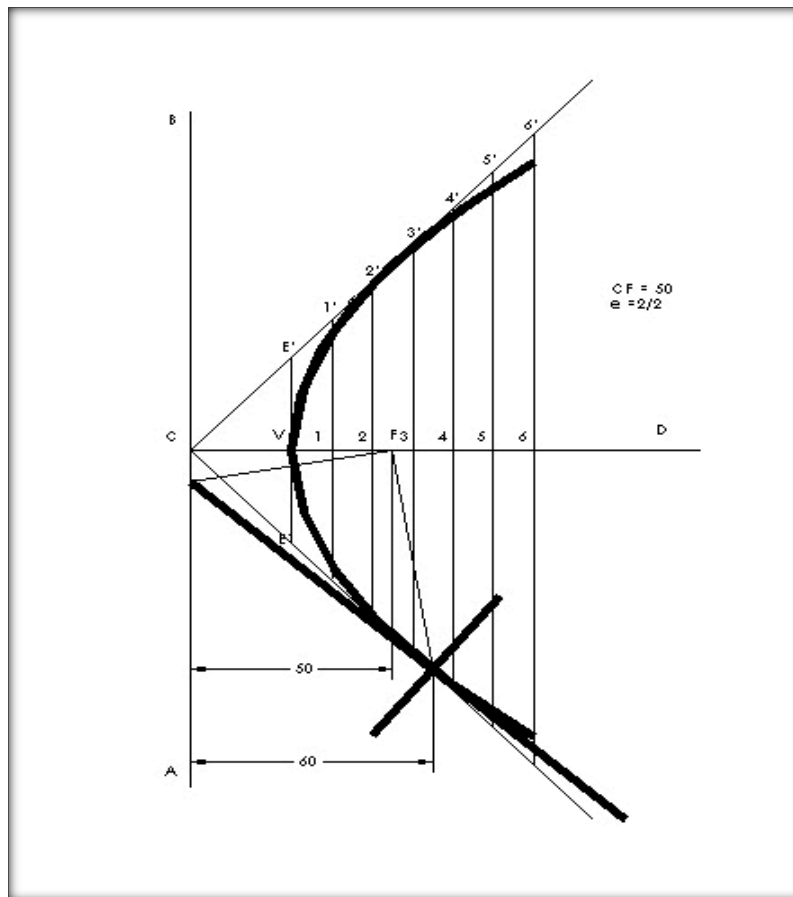
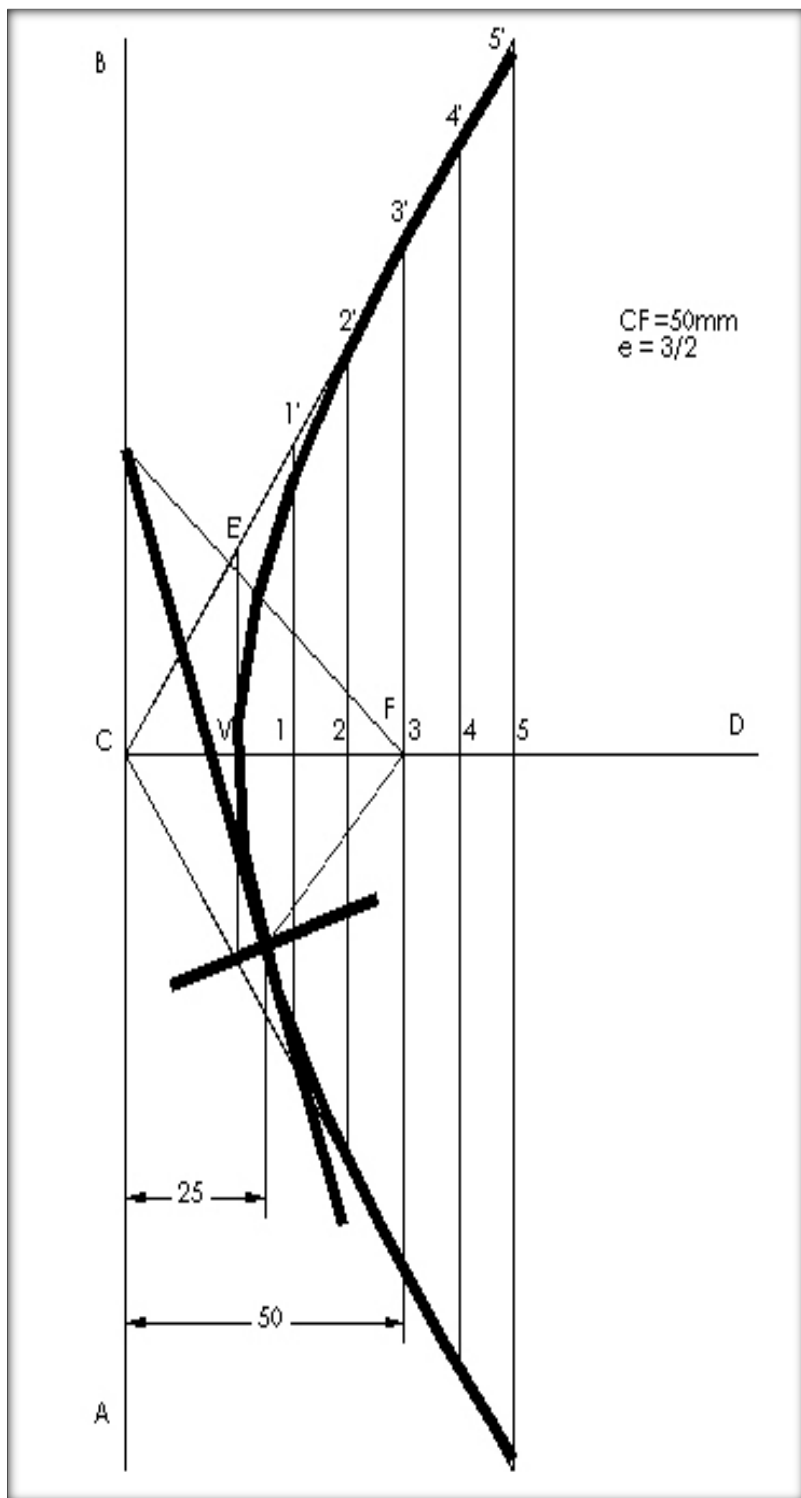


Class	: I Year	Semester	: I
Topic	: Curves-Ellipse	Max Marks	:
Duration	:	Date	:

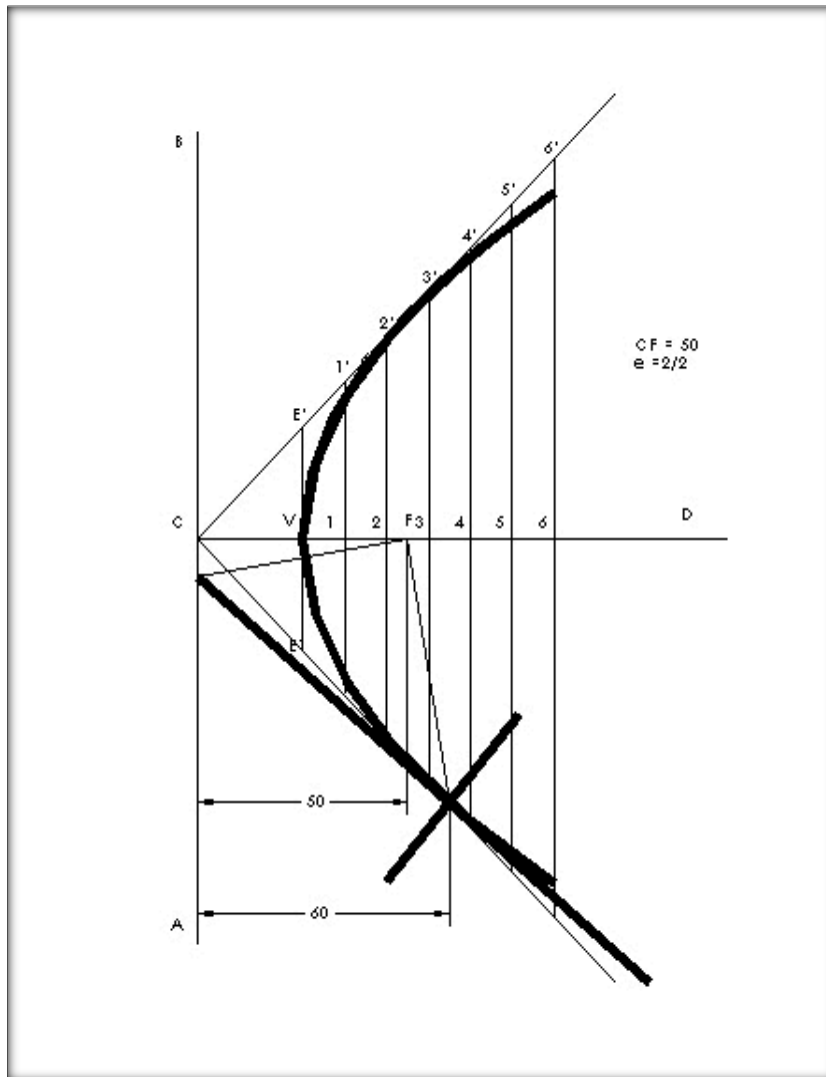
- The focus of a conic is 50 mm from the directrix. Draw the locus of a point 'P' moving in such a way that its distance from the directrix is equal to its distance from the focus. Name the curve. Draw a tangent to the curve at a point 60 mm from the directrix. **(April/May 2011)**



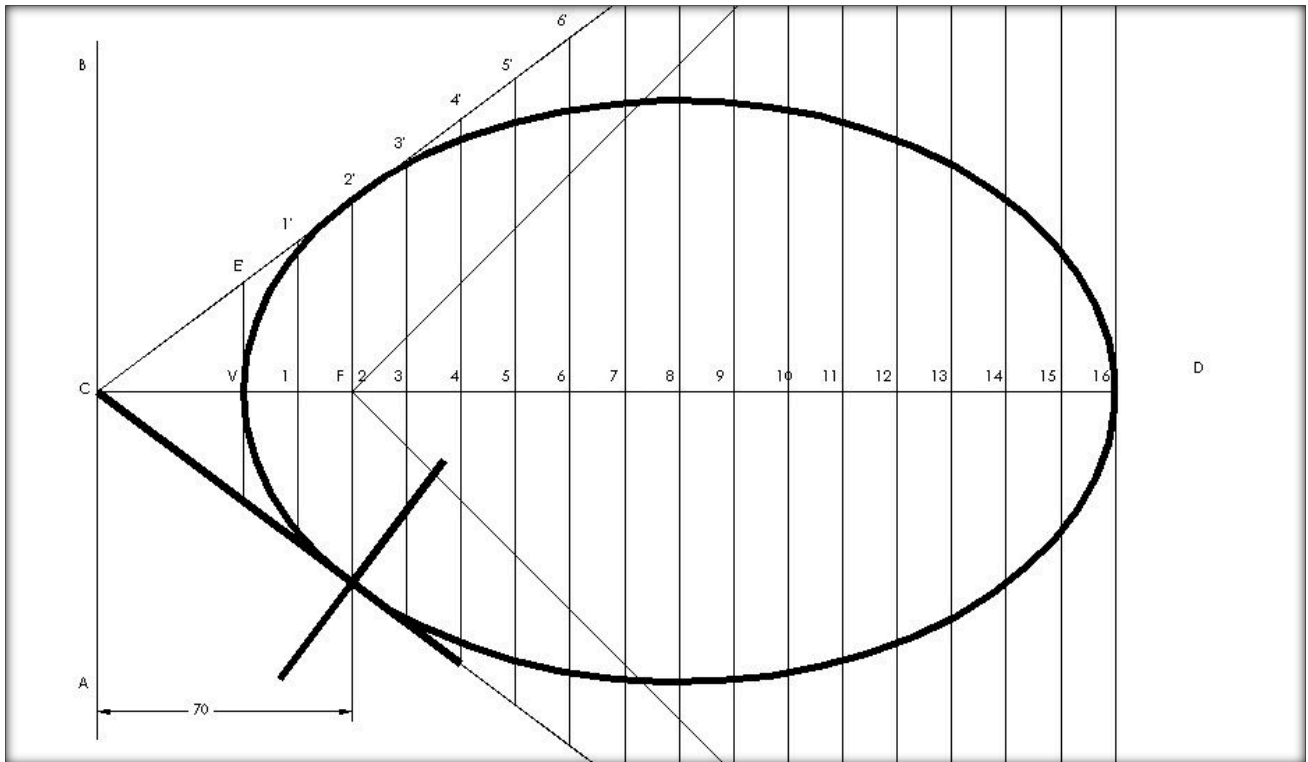
2. Draw a hyperbola when the distance between its focus and directrix is 50 mm and eccentricity is  $3/2$ . Also draw the tangent and normal at a point 25 mm from the directrix. (January 2010 AN)



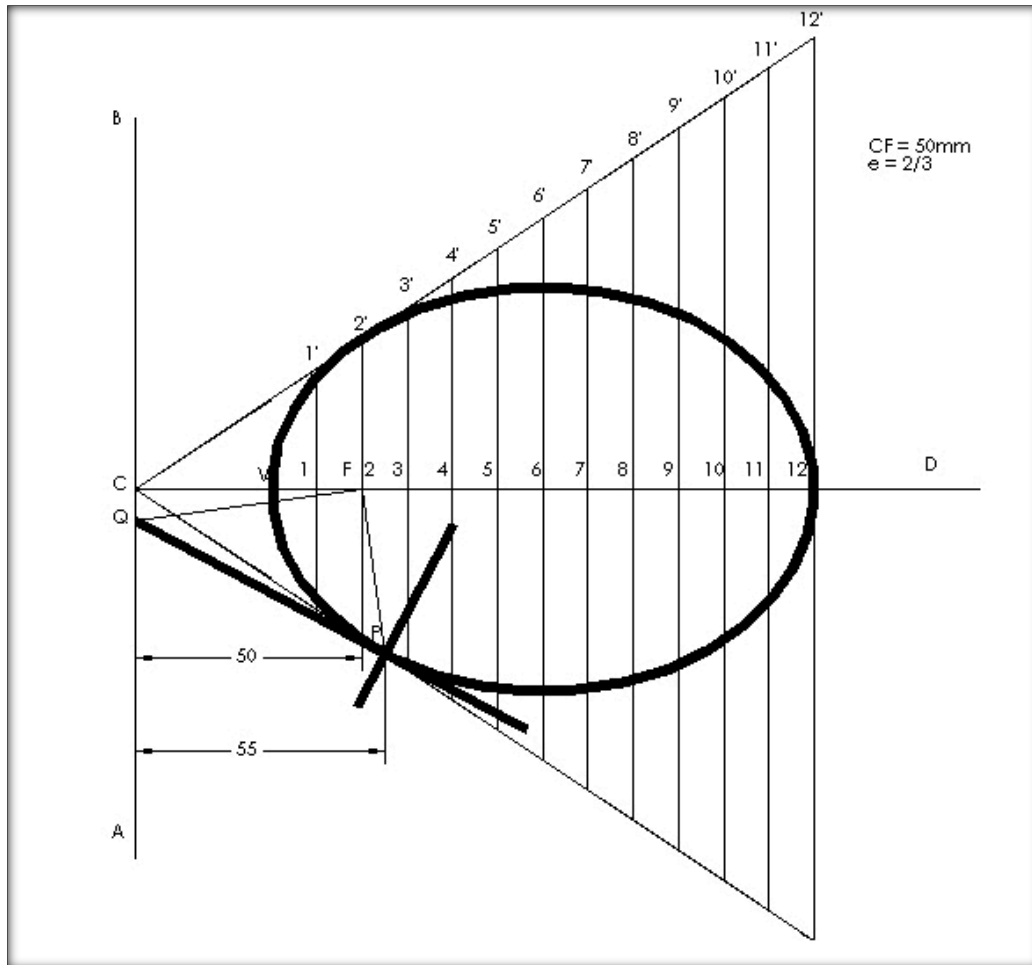
3. The focus of a conic is 50 mm from the directrix. Draw the locus of a point 'P' moving in such a way that its distance from the directrix is equal to its distance from the focus. Name the curve. Draw a tangent to the curve at a point 60 mm from the directrix. **(January 2010 FN)**



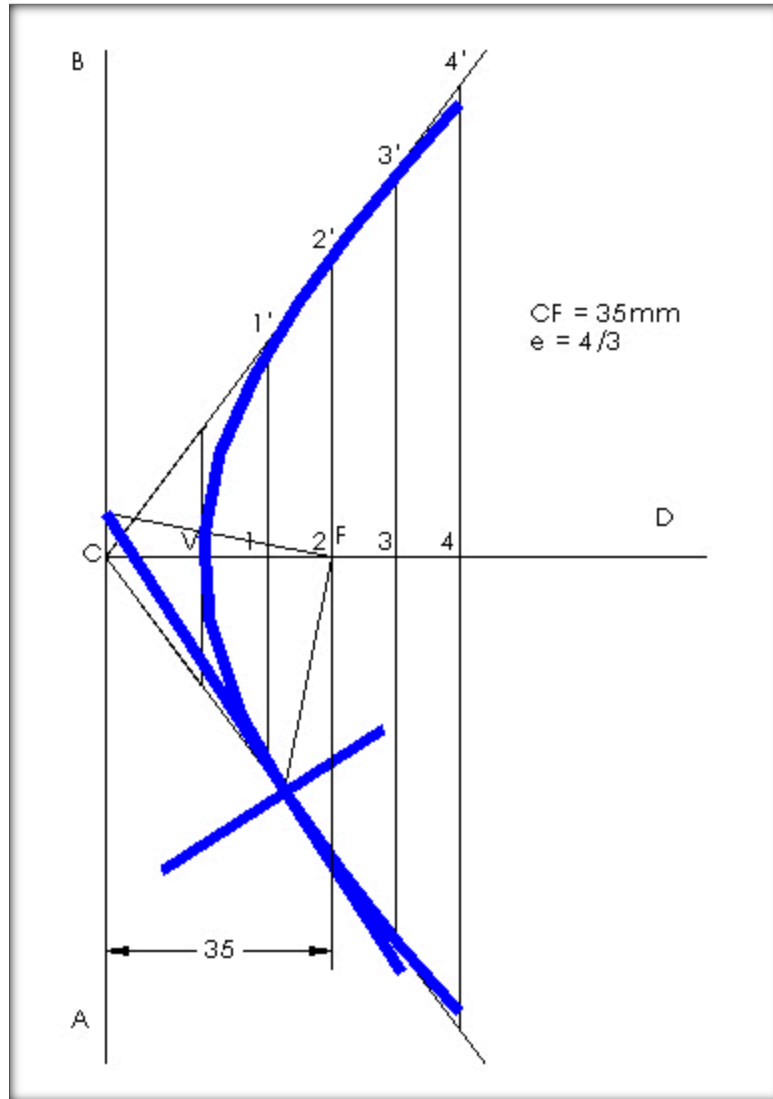
4. Draw the conic curve, if the distance of focus from the directrix is 70mm and the eccentricity is  $\frac{3}{4}$ . Also draw a tangent and a normal at any point on the curve. **(January 2009)**



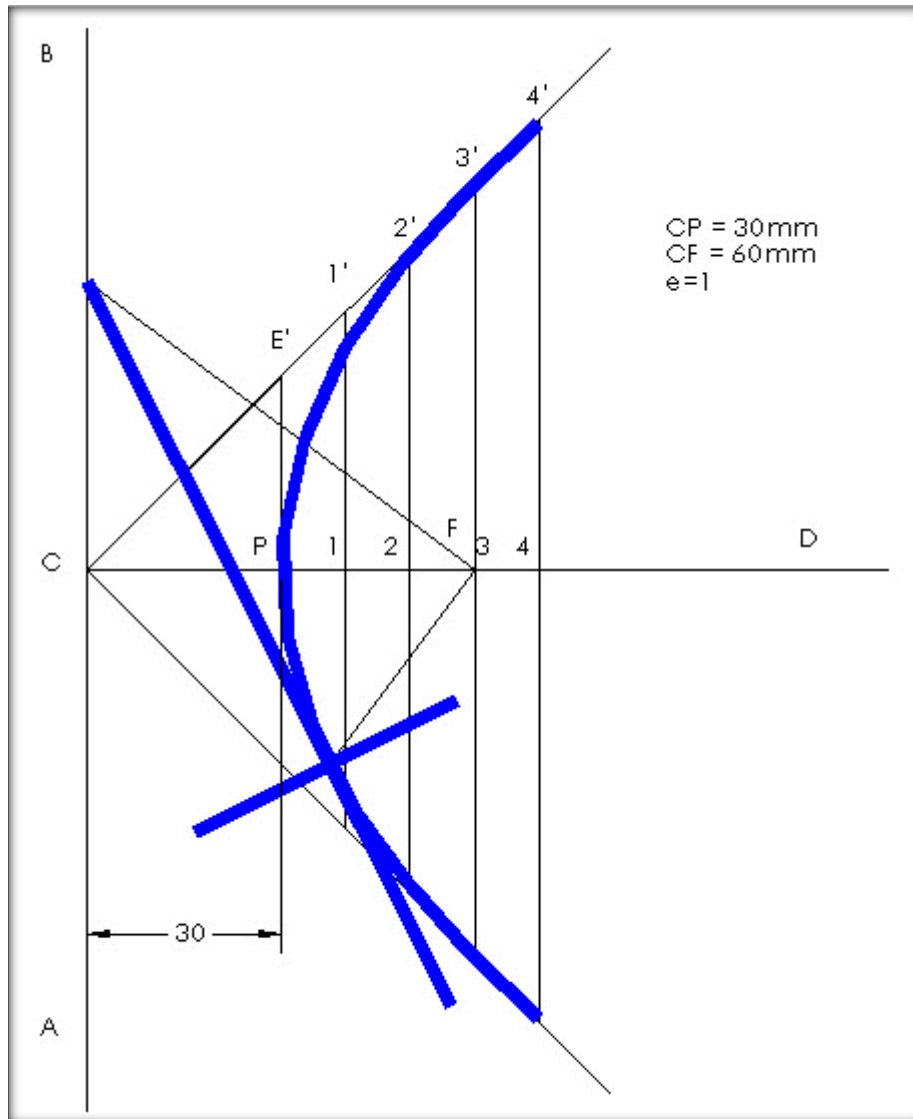
5. Draw the locus of a point P which moves in a plane in such a way that the ratio of its distances from a fixed point F and a fixed straight line AB is always  $\frac{2}{3}$ . The distance between the fixed point F and fixed straight line is 50 mm. Also draw a tangent and normal on a point on the locus at a horizontal distance of 55 mm from the fixed straight line. **(May/June 2010)**



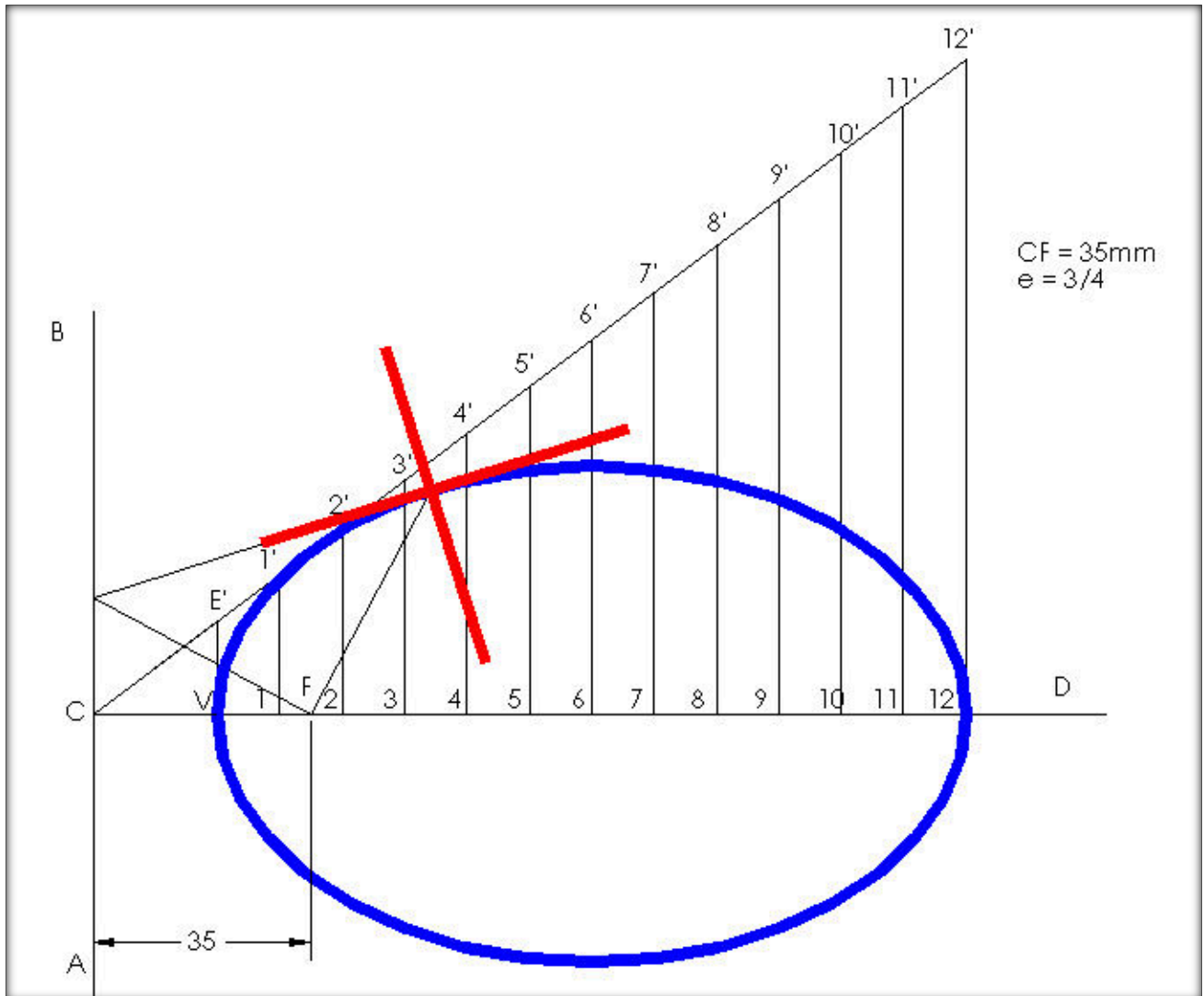
6. Draw the locus of a curve traced by a point, when the distance of focus from the directrix is equal to 35mm and eccentricity is  $4/3$ . Also draw the tangent and normal to the curve at any point on the curve **(January 2009)**



7. Draw the locus of the point P moving so that the ratio of the distance from a fixed point F to its distance from a fixed straight line is 1. The point P is at a distance of 30mm from the fixed straight line. Also draw a tangent and normal to the generated curve. **(January 2010 AN)**

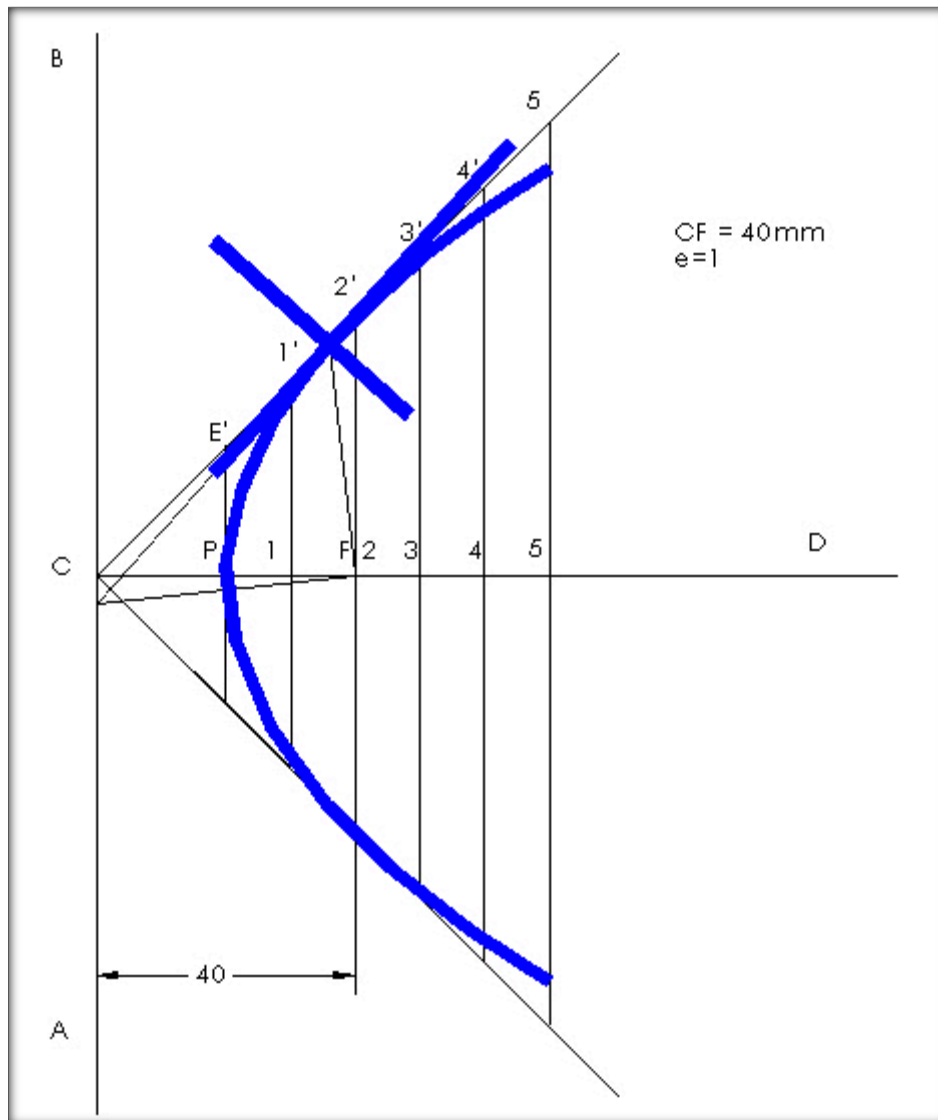


8. Draw the locus of a curve traced by a point, when the distance of focus from the directrix is equal to 35mm and eccentricity is  $3/4$ . Also draw the tangent and normal to the curve at any point on the curve **(January 2011)**





9. The distance of the focus from the directrix is 40mm. trace the path of a point which moves such that its distance from the focus is equal to its distance from the directrix. **(January 2011)**



10. Draw the locus of a point P which moves in a plane in such a way that the ratio of its distances from a fixed point F and a fixed straight line AB is always  $\frac{2}{3}$ . The distance between the fixed point F and fixed straight line is 50 mm. Also draw a tangent and normal on a point on the locus at a horizontal distance of 55 mm from the fixed straight line. **(January 2012 AN)**

