## ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

## I CONSTRUCTION OF HYPERBOLA BY ECCENTRICITY METHOD

## **EXAMPLE 1**

To draw a hyperbola with the distance of the focus from the directrix at 50mm and e=3/2 (Eccentricity method)Construction:

- 1. Draw the directrix CD and the axis AB.
- 2. Mark the focus F on AB and 65mm from A.
- 3. Divide AF into 5 equal divisions and mark V the vertex, on the second division from A.
- 4. Draw a line VE perpendicular to AB such that VE=VF. Join A and E.
- 5. Mark any point 1 on the axis and through it, draw a perpendicular to meet AE produced at 1'.
- 6. With centre F and radius equal to 1-1', draw arcs intersecting the perpendicular through 1 at P1

and P'1.

7. Similarly mark a number of points 2, 3 etc and obtain points P2 and P'2, etc.



