



⑧ Draw a parabola by tangent method. Given its double ordinate = 120 mm and abscissa = 90 mm. (OU-2013)

- Ans :
1. Draw double-ordinate  $AB = 120\text{ mm}$ , abscissa  $CV = 90\text{ mm}$ .
  2. Extend the axis  $CV$  to  $E$  such that  $CV = VE$  join  $AE$  and  $BE$  and they are tangents to the parabola at  $A$  &  $B$ .
  3. Divide  $AE$  and  $BE$  into same no. of equal parts (say 8). join  $1-1'$ ,  $2-2'$ ... etc.
  4. Draw the curve tangent to all these lines. This is required parabola.

