· EXERCISE 3 ENGINEERING CURVES

1. A circle, of 50 mm diameters, volls along the circumference of wrother circle of 150 mm diameter from inside. Draw path P on the circumference of volling circle for I complete revolution. Name the curve & draw normal & tangent to curve at any point on it.

on it.

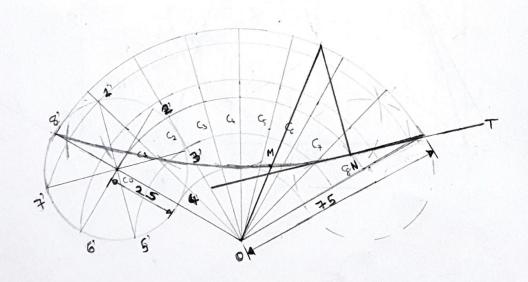
d= 50mm

D= 150mm

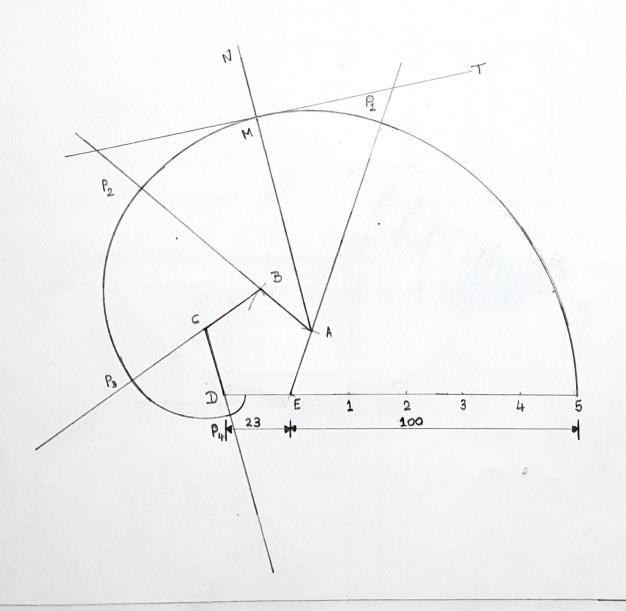
O=360x d

D=360x d

150



2. An irelastic string of length 100 mm is wound around a pentagon of 23 mm. sides. Drows the path trace by end of the string. Also drows the normal & targent at any point on the curve.



3. Construct Logarithmic Spiral for 1 convolution. Given the length of shortest radius vectors to 11 mm 8 ratio of the lengths of Successive radius vectors equal to 615 for vectorial angle of 30°.

