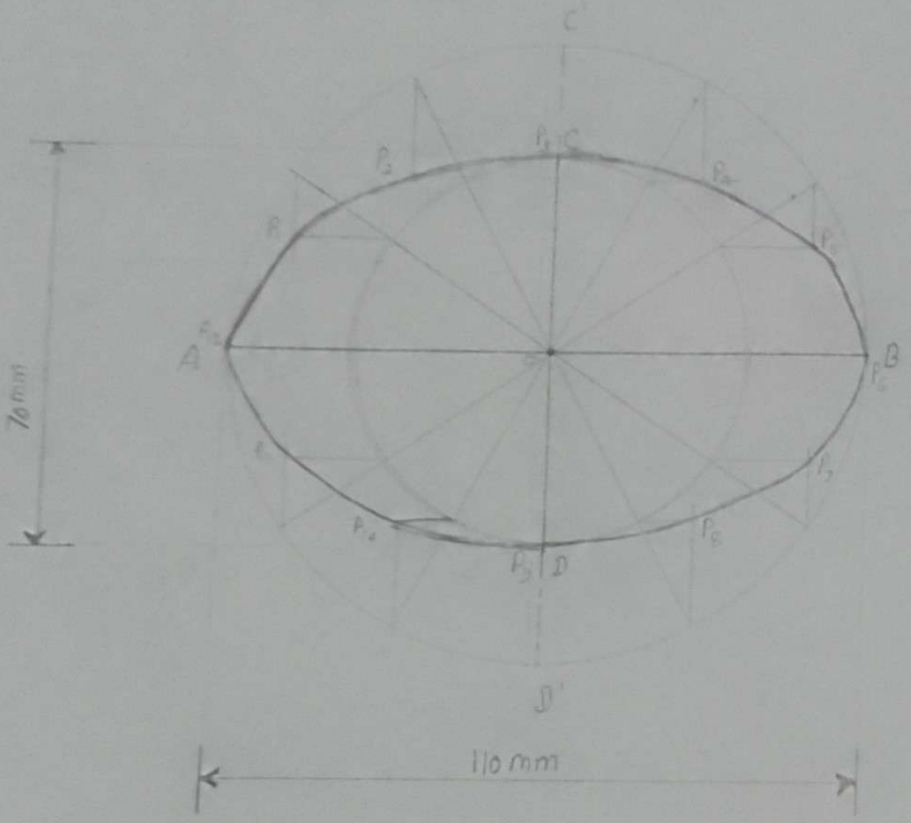
(6)

Conic Section

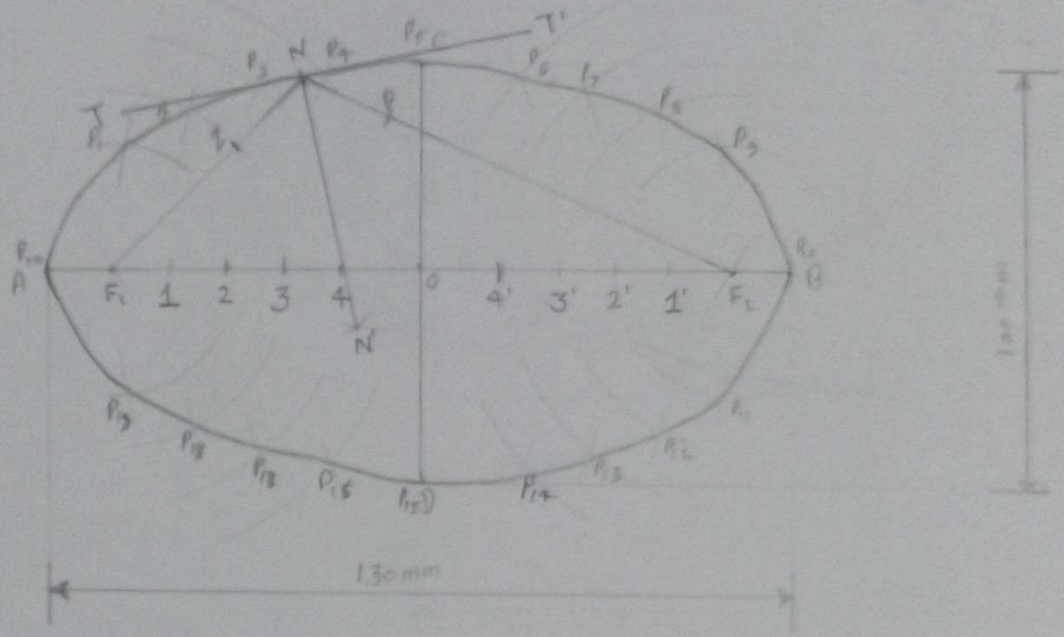
Ellipse

Concentric circle method



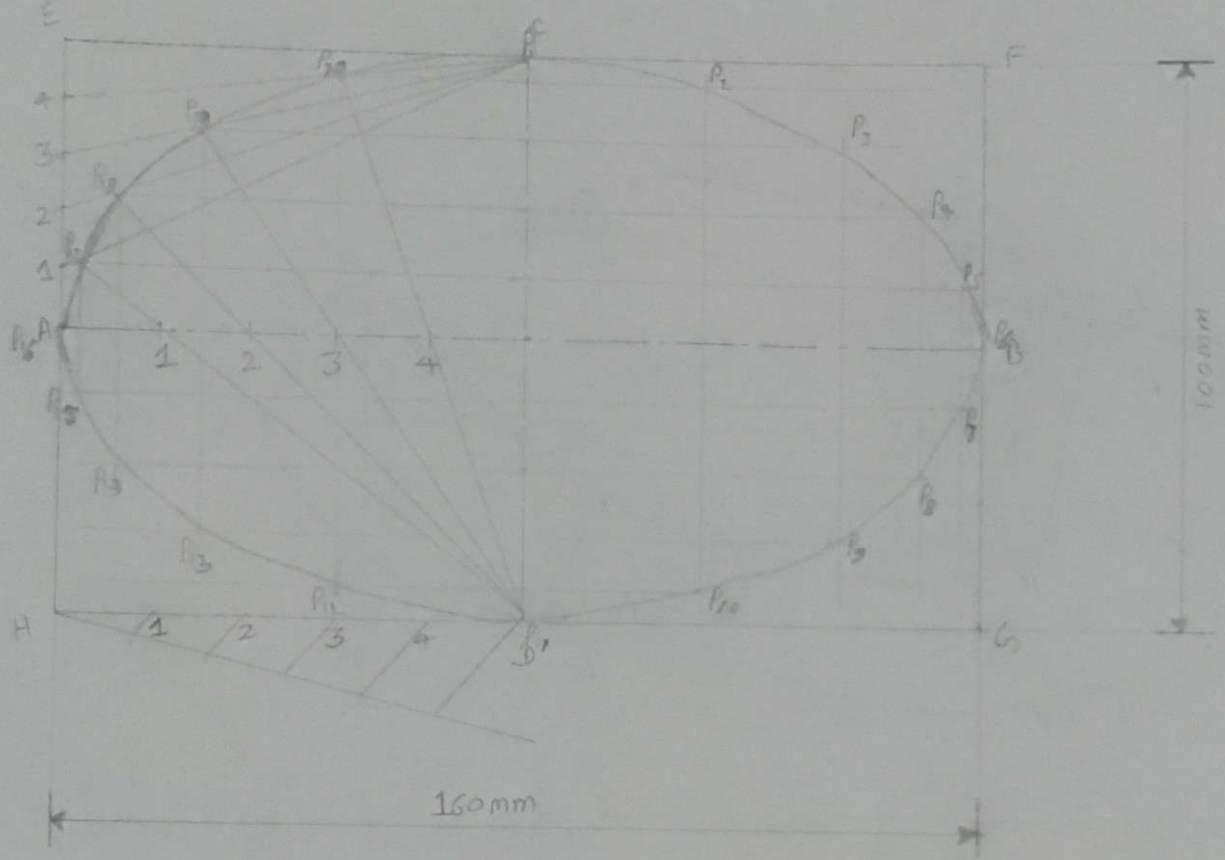
Arc of Circle

(7)



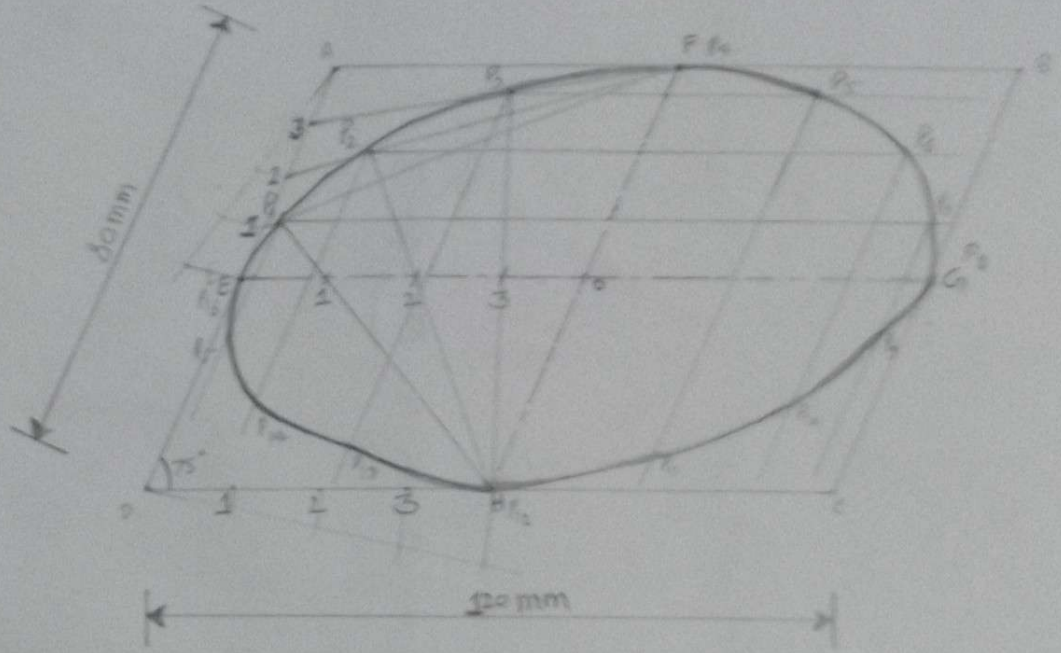
(8)

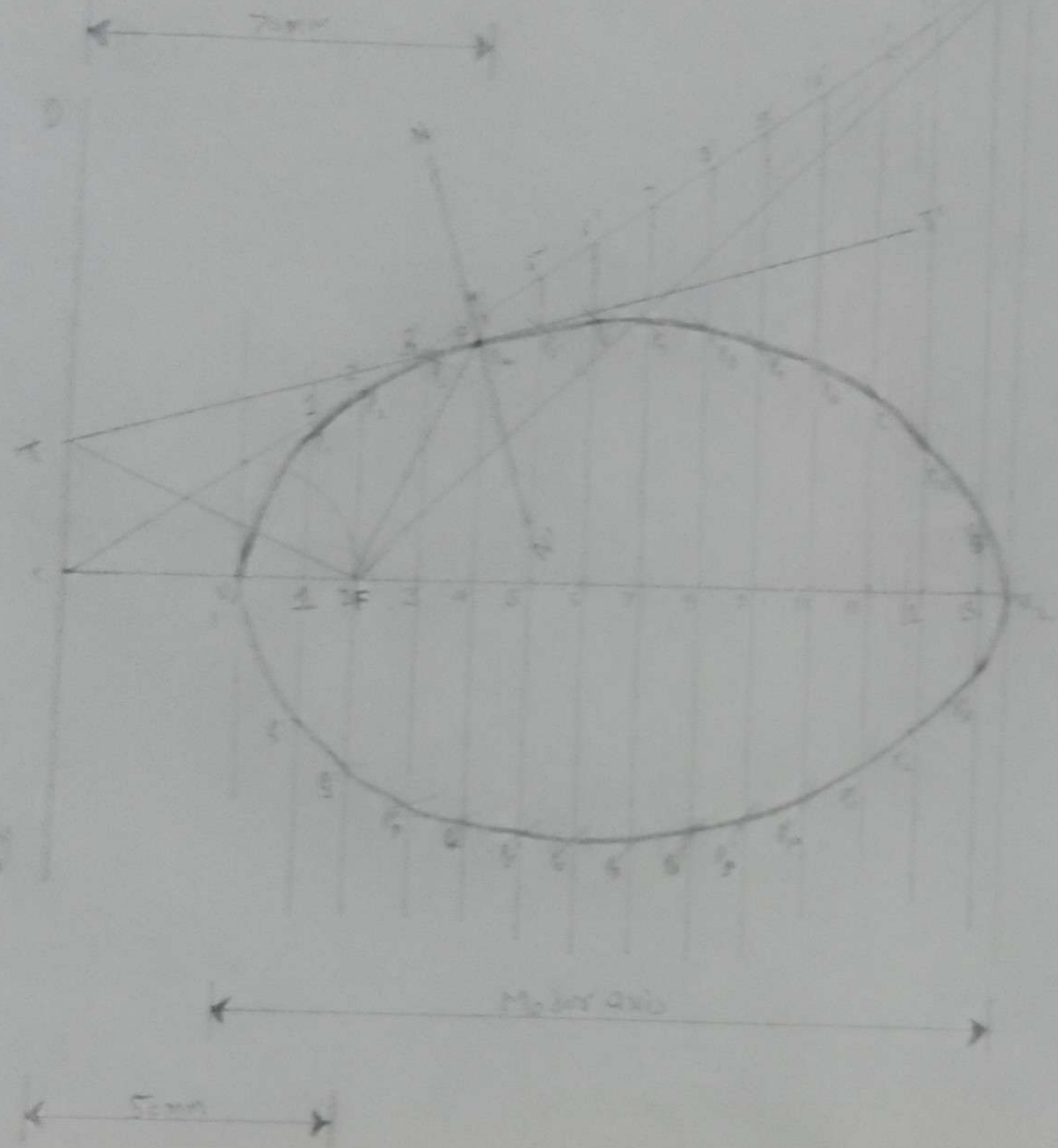
(Oblong) Rectangular method



(9)

Parallelogram (oblong) method

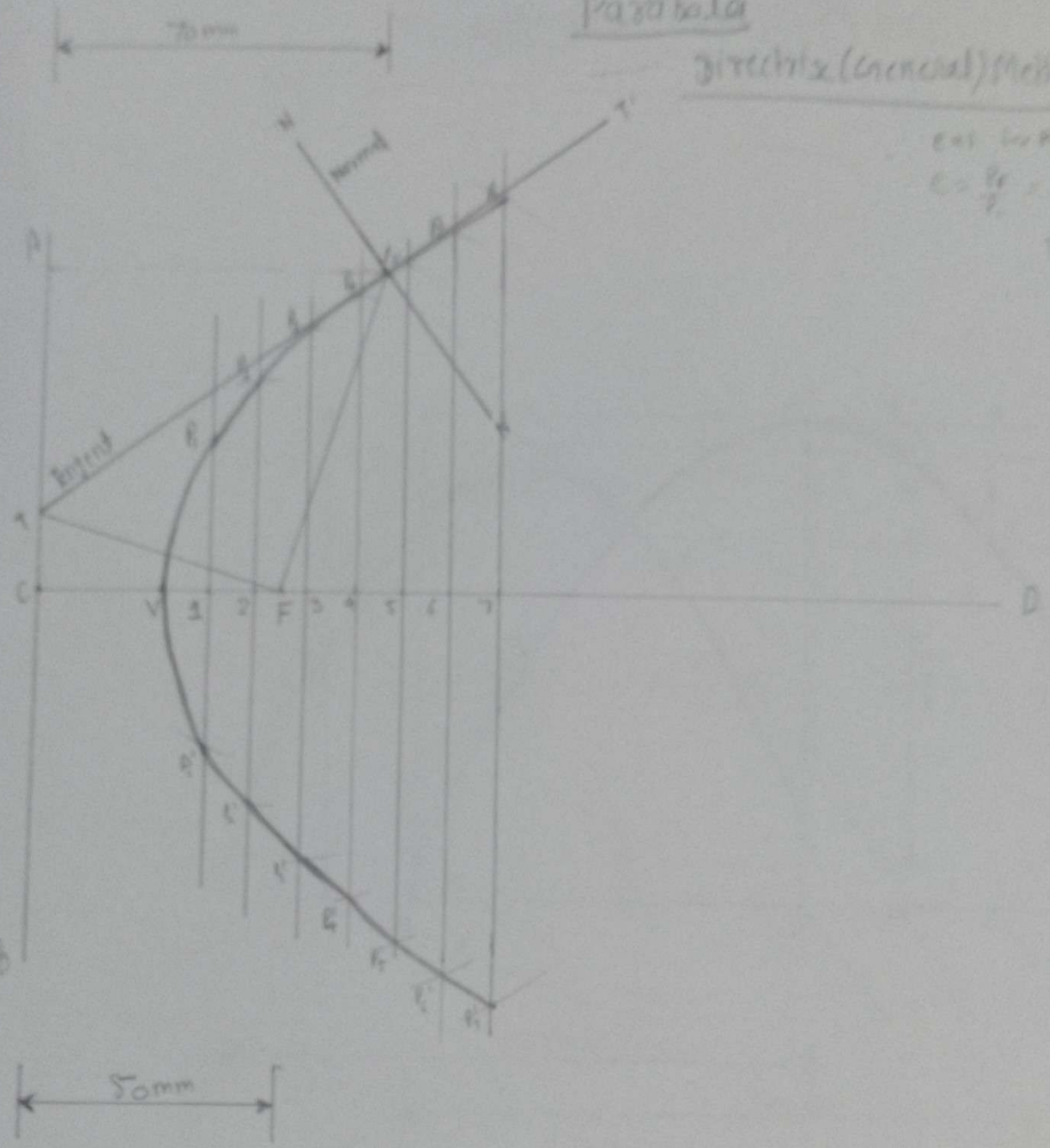



7cm
Major axis
5cm

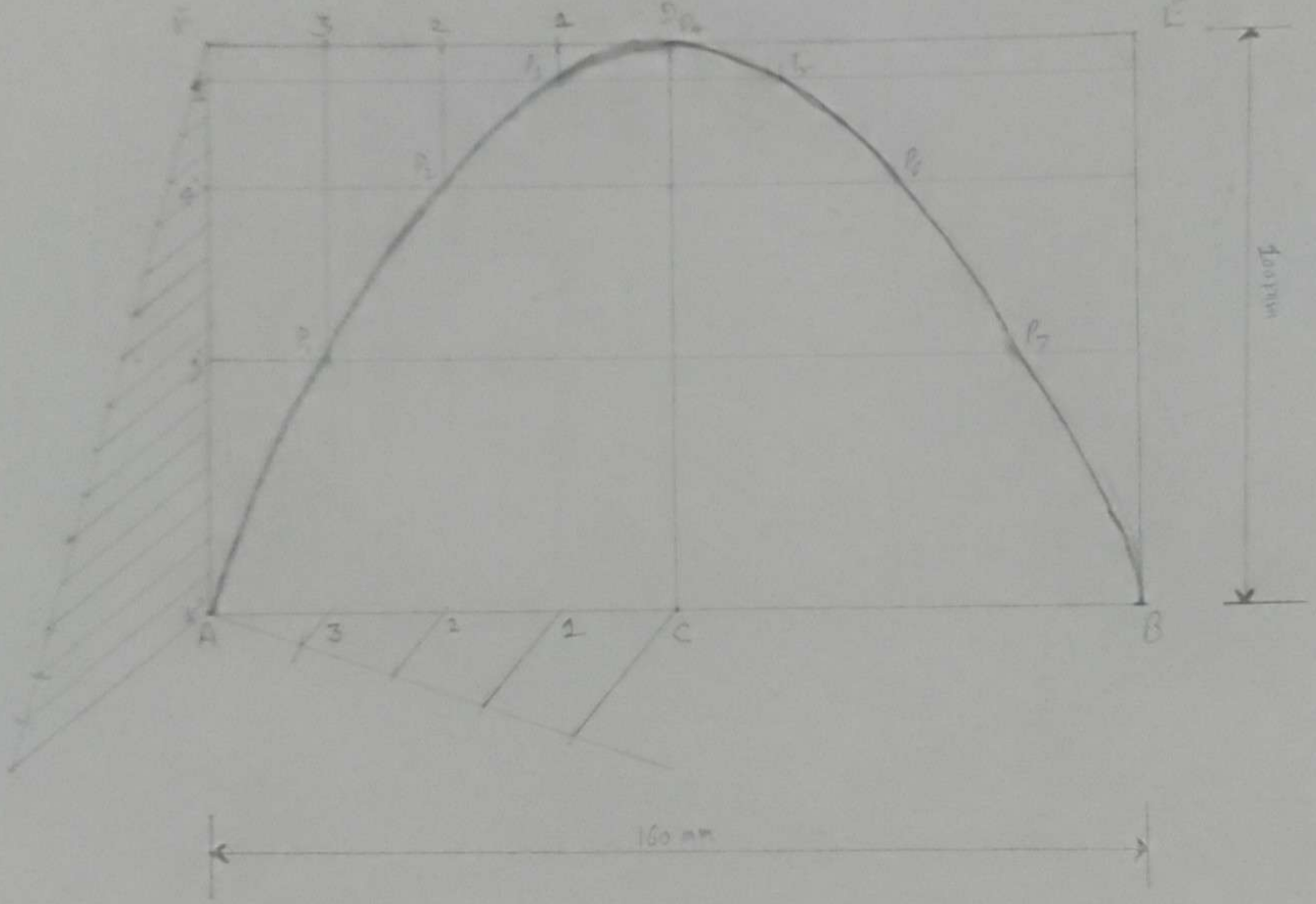
11

Parabola

Directrix (General) Method

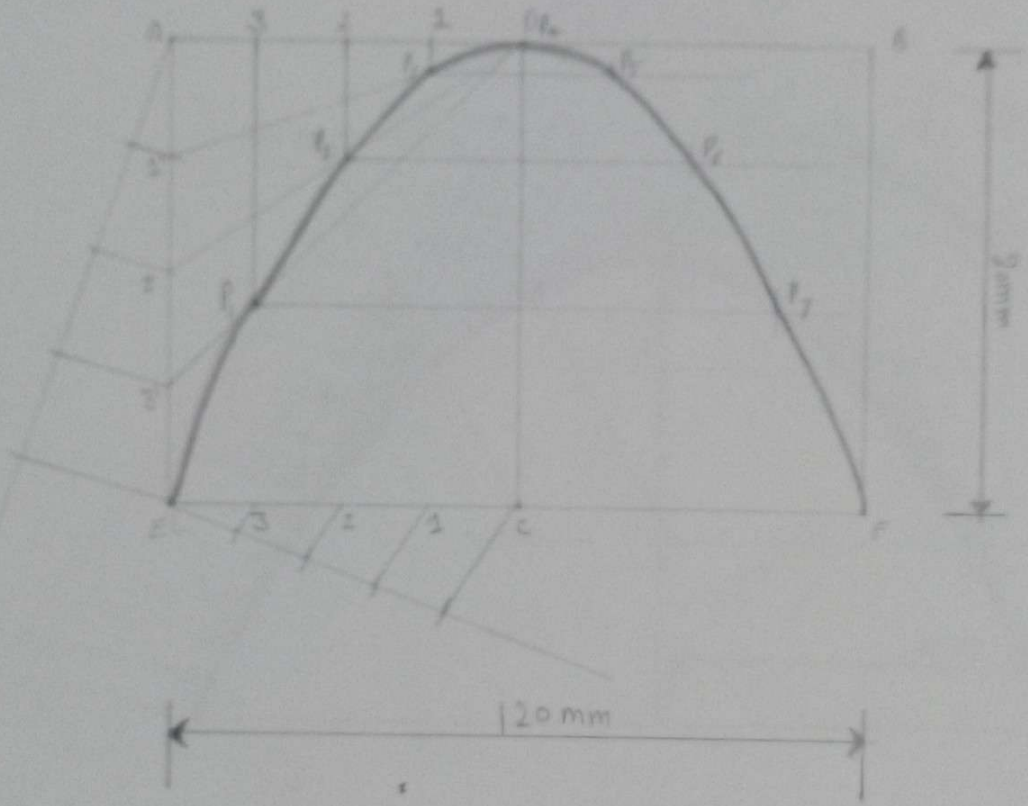


Offset Method



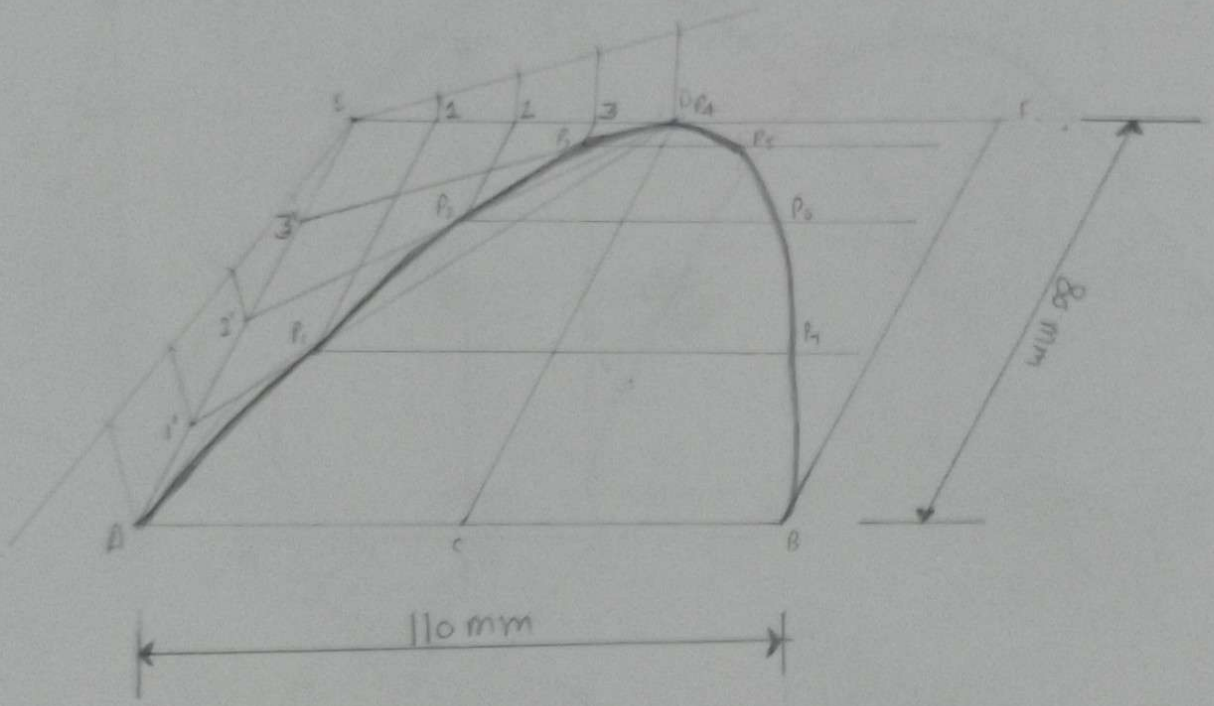
Rectangular (oblong) Method

(13)



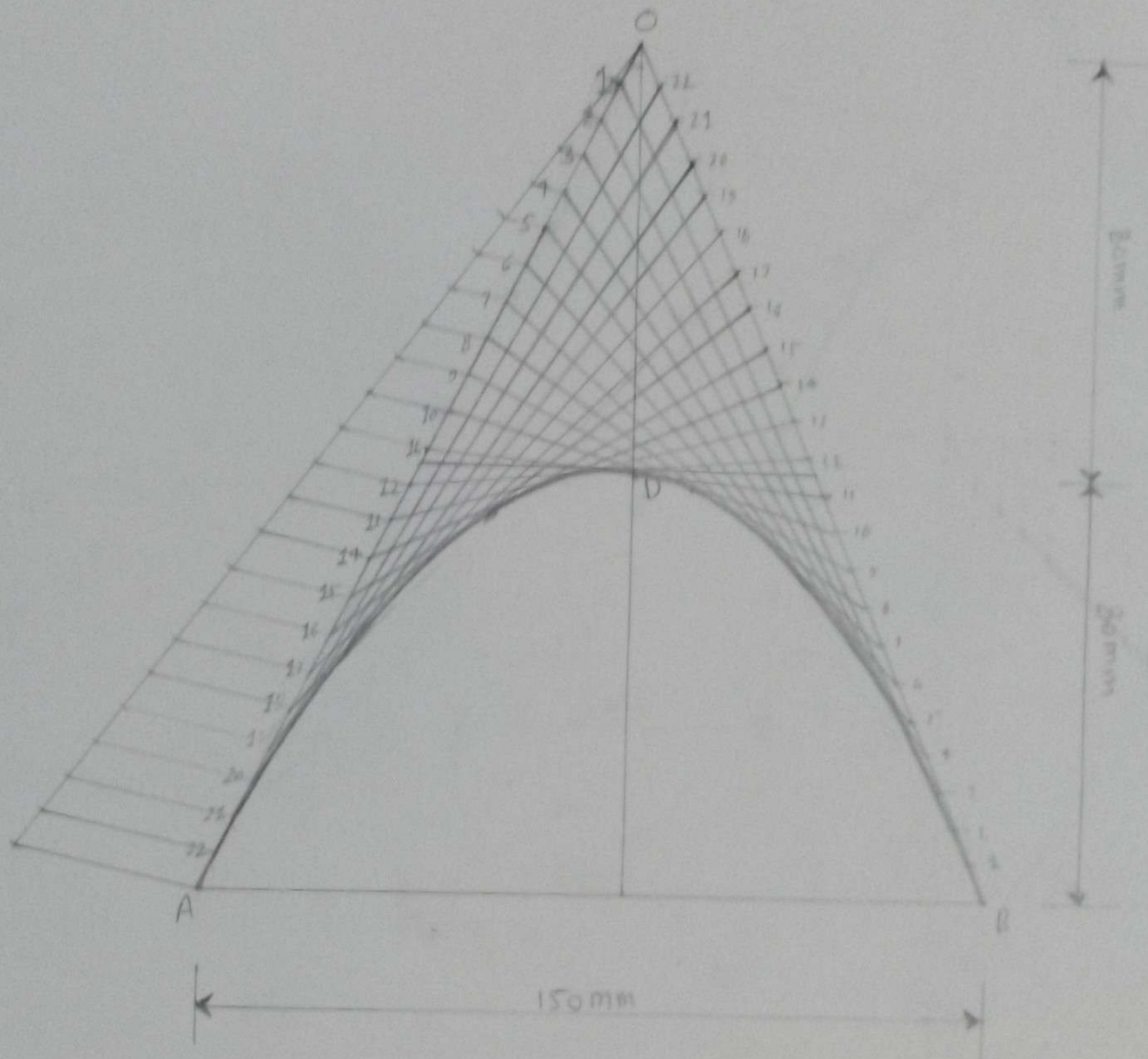
(4)

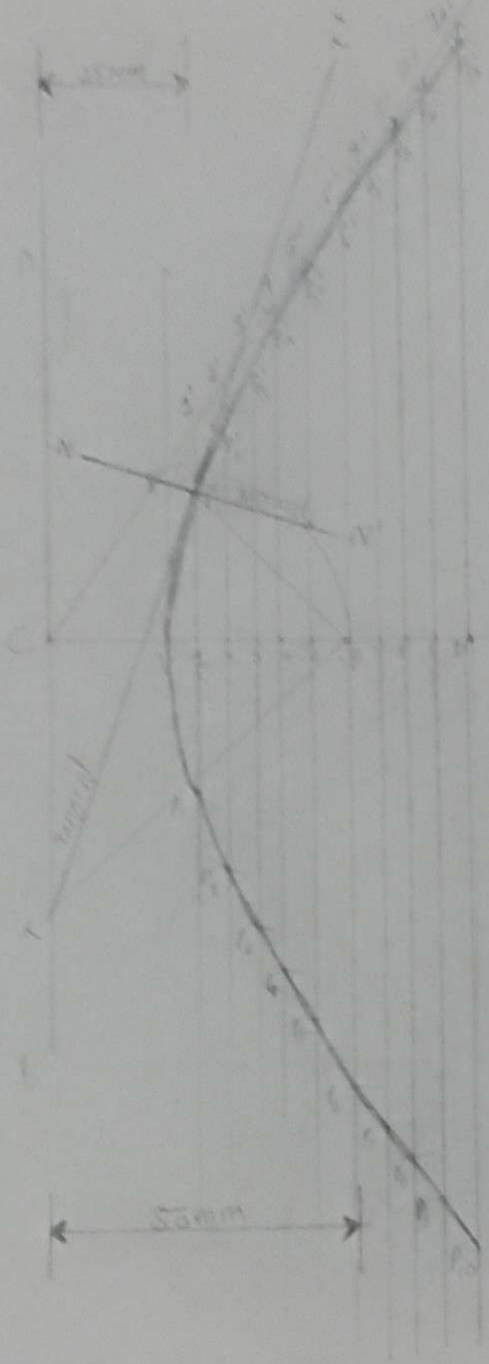
Parallelogram (Oblong) Method



15

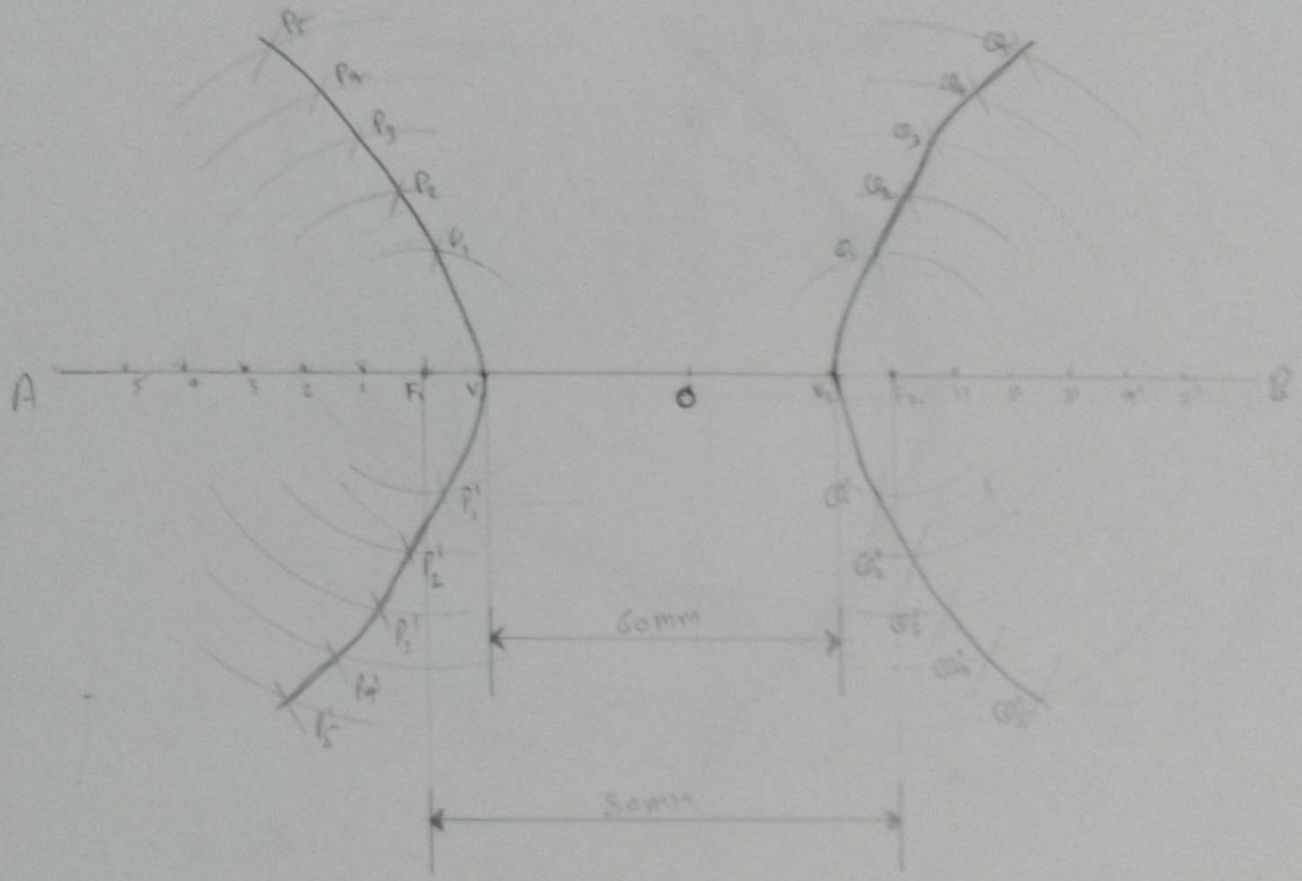
Tangent Method




50 mm

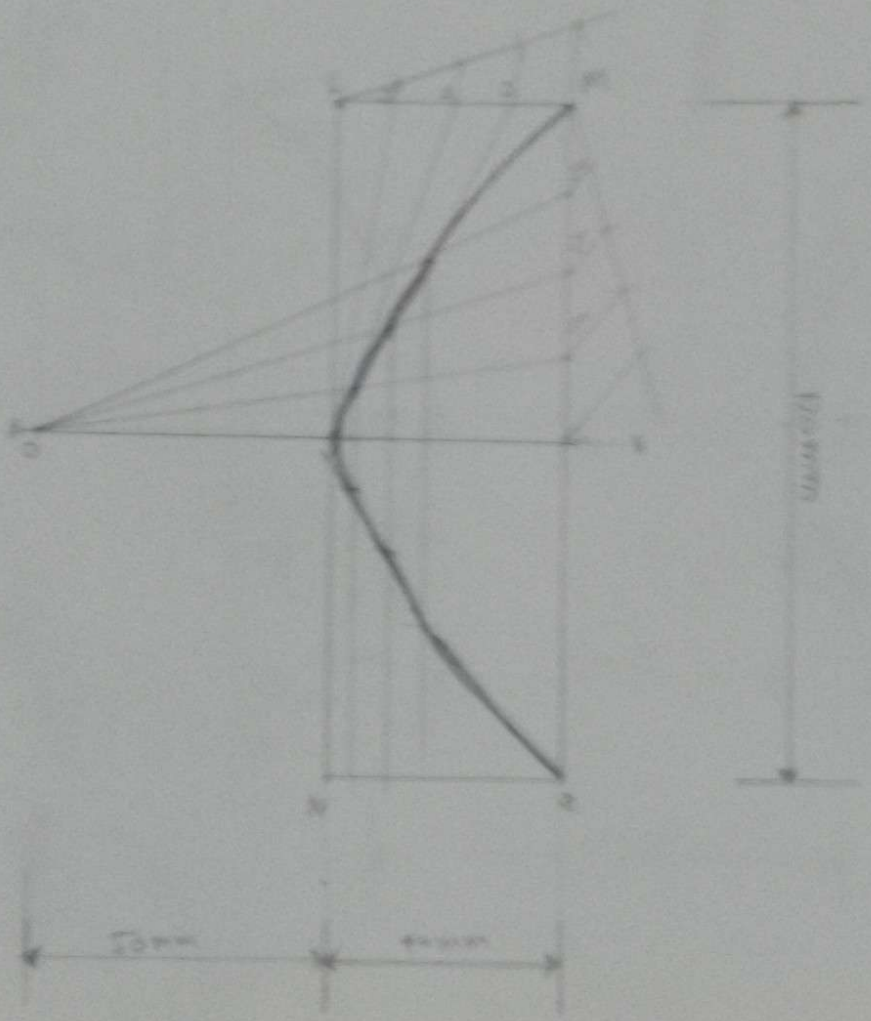
17

Intersecting Arc Method



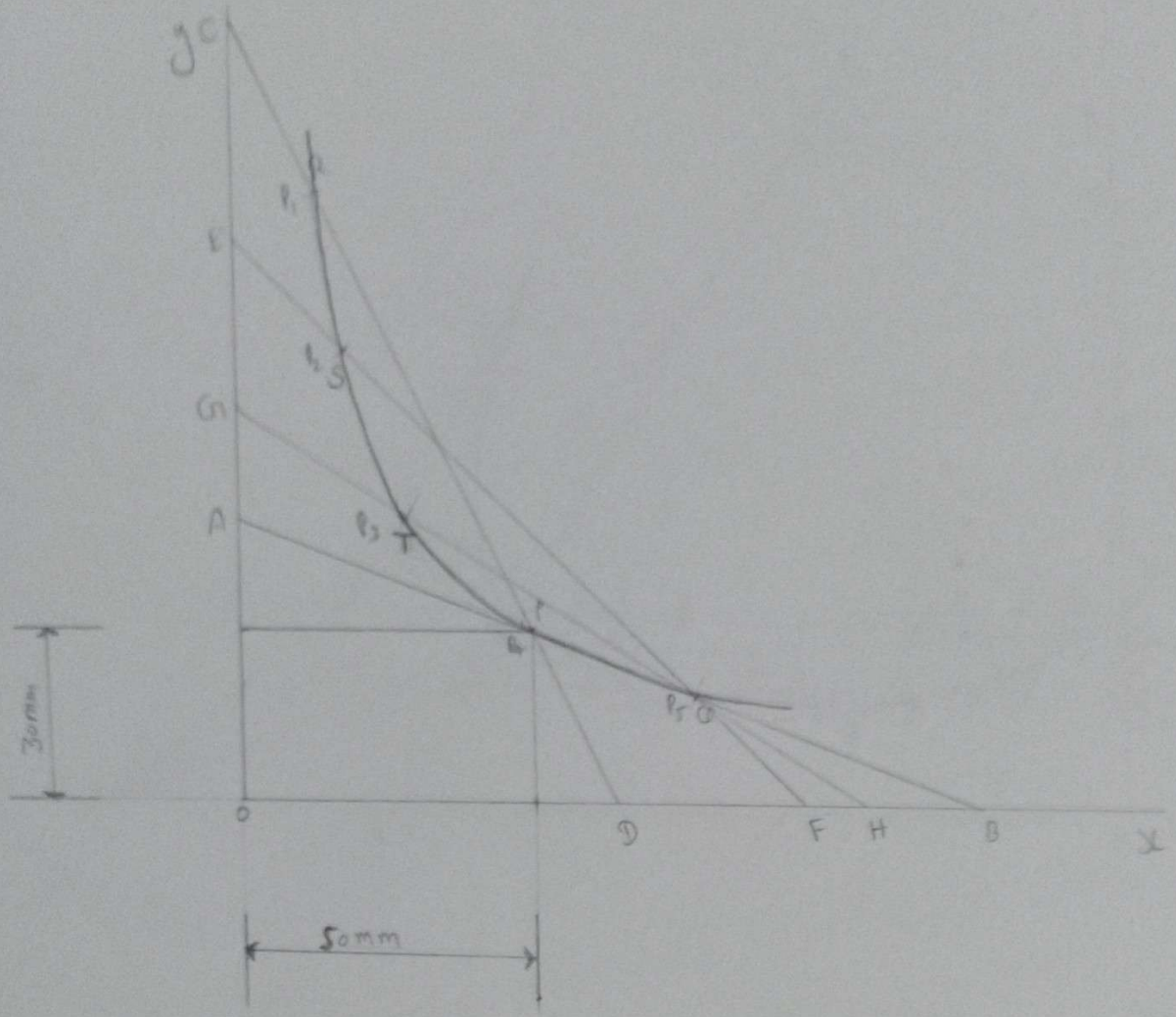
(11)

Ordinate Method

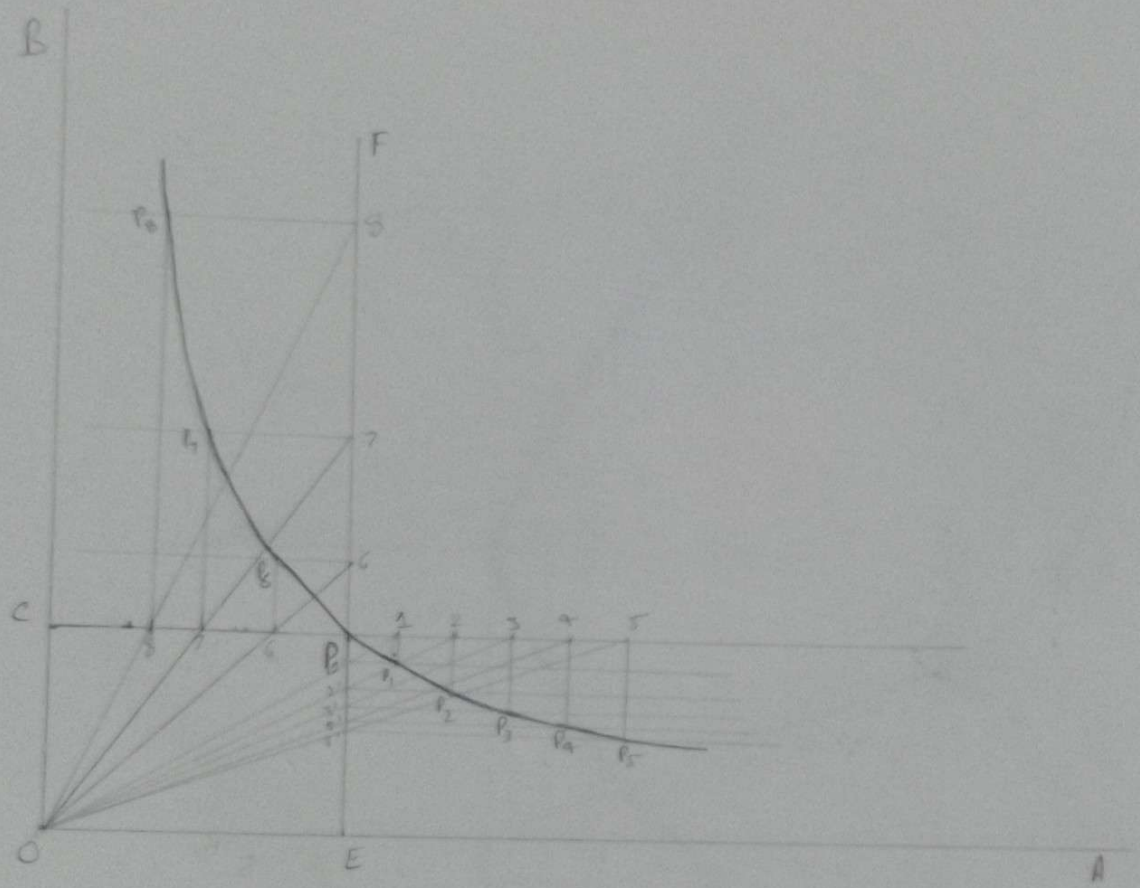


(12)

Intercept Method

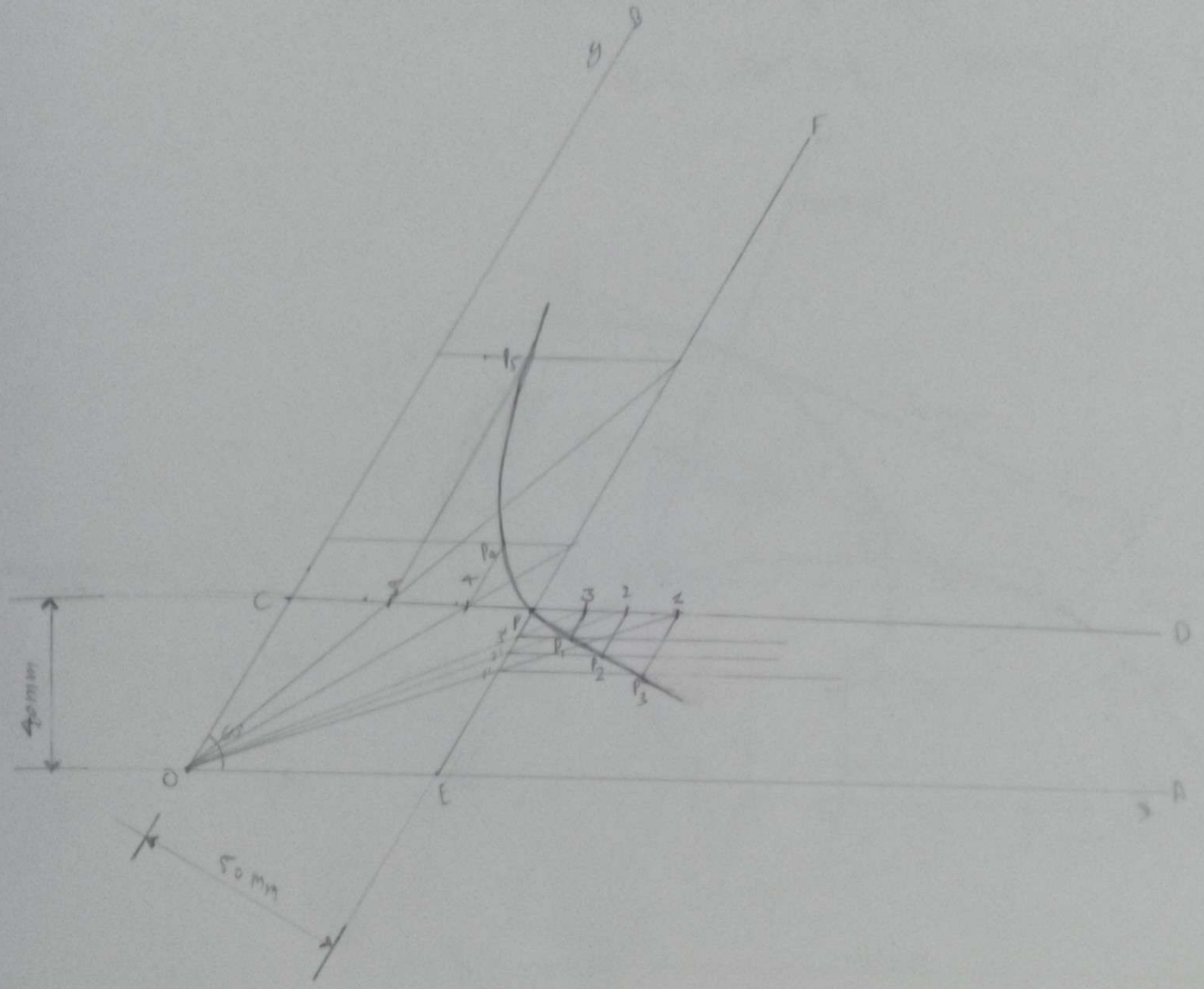


Orthogonal (Asymptote) Method

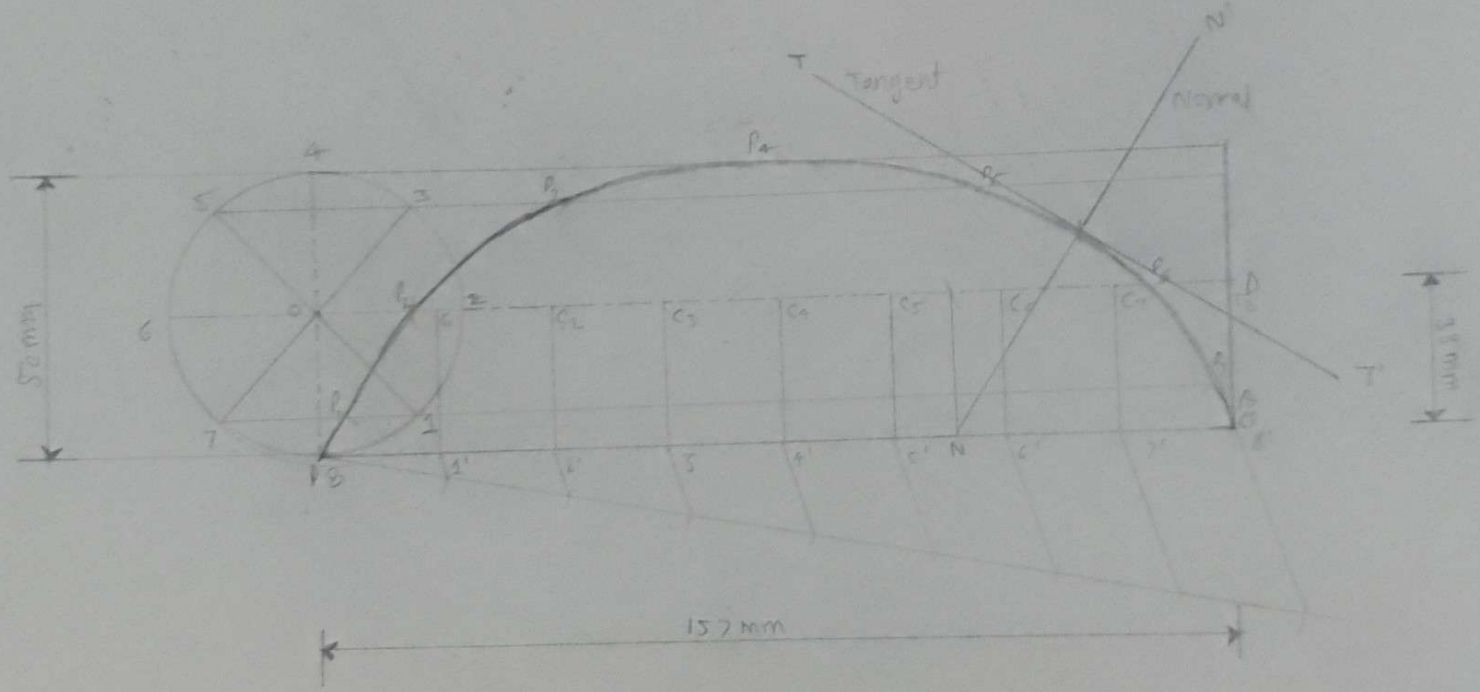


(21)

Oblique Asymptotes Method



Cycloid



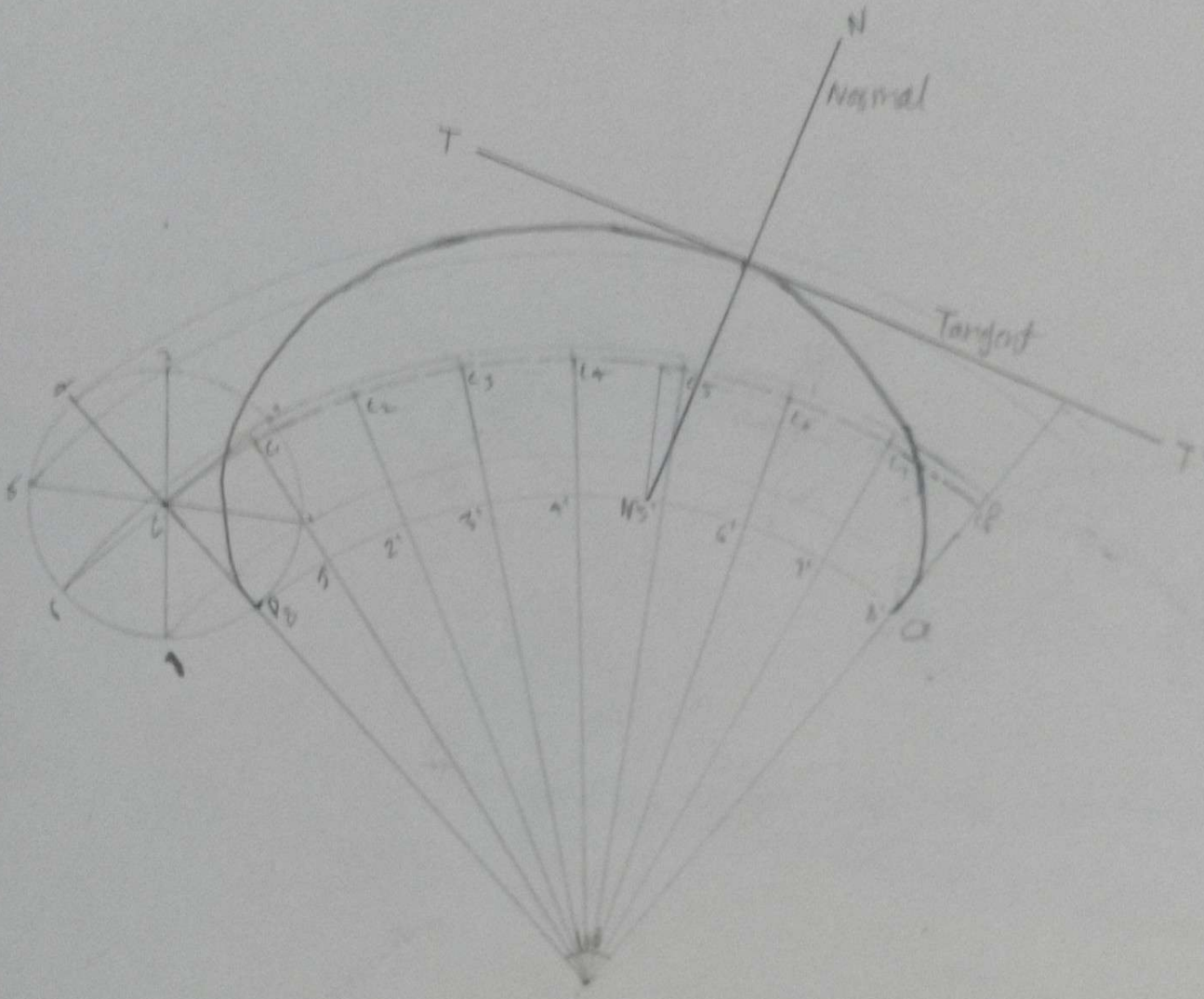
23

EPICYCLOID

Radius of generating circle $r = \frac{50}{2} = 25\text{mm}$

Radius of directing circle $R = \frac{150}{2} = 75\text{mm}$

$\theta = 360° \times \frac{r}{R} = 360° \times \frac{25}{75} = 120°$



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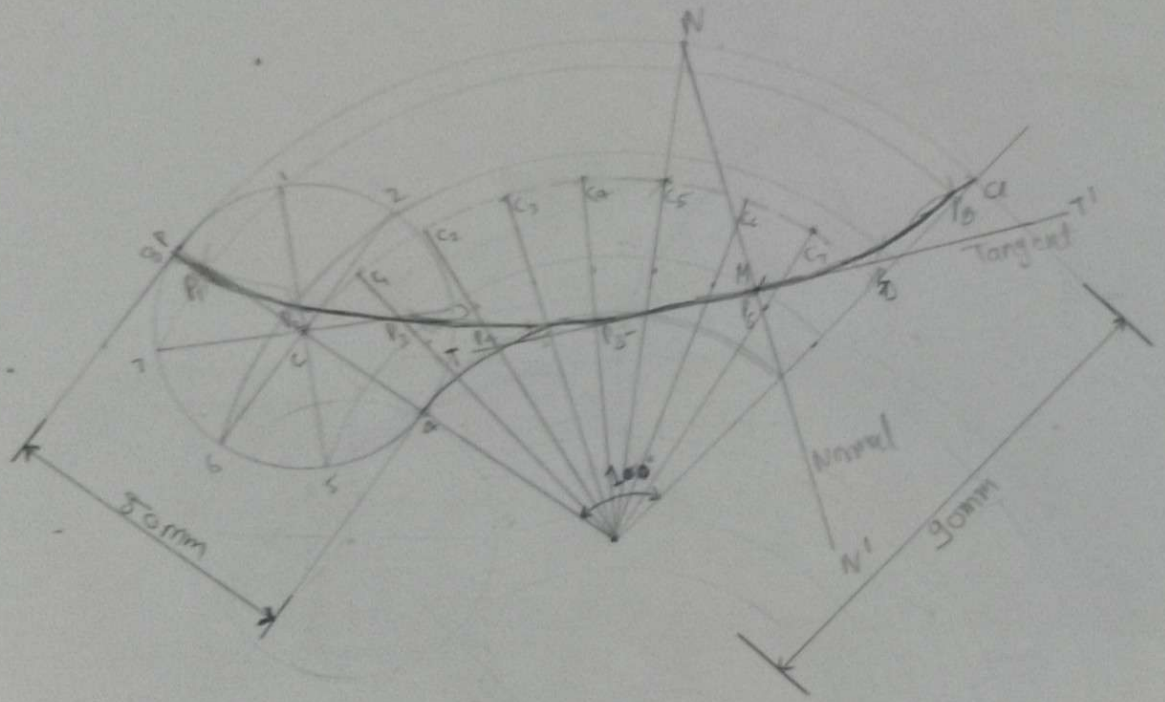
Hypocycloid

Radius of rolling circle, $r = \frac{50}{2} = 25$ mm

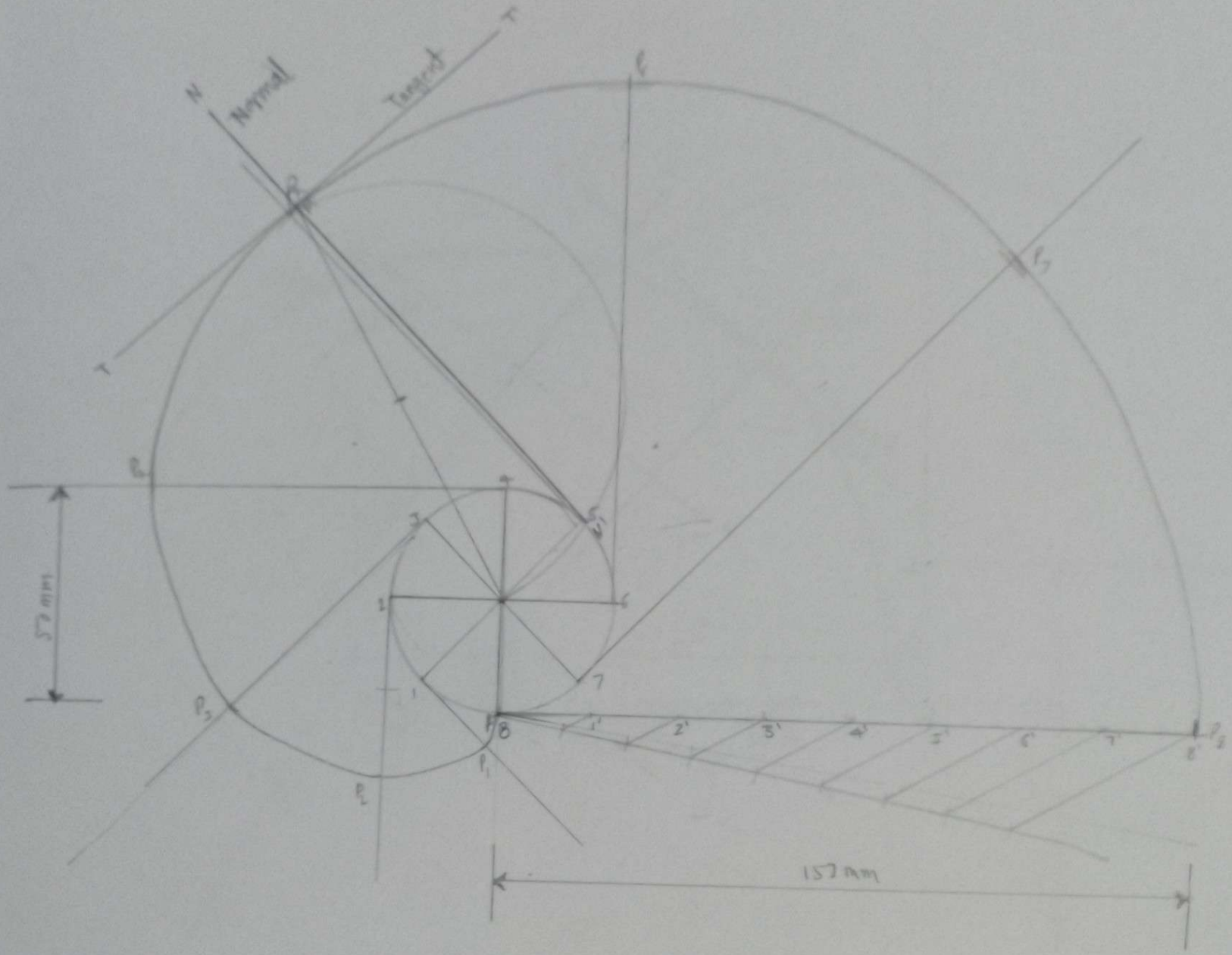
Radius of directing circle, $R = \frac{150}{2} = 75$ mm

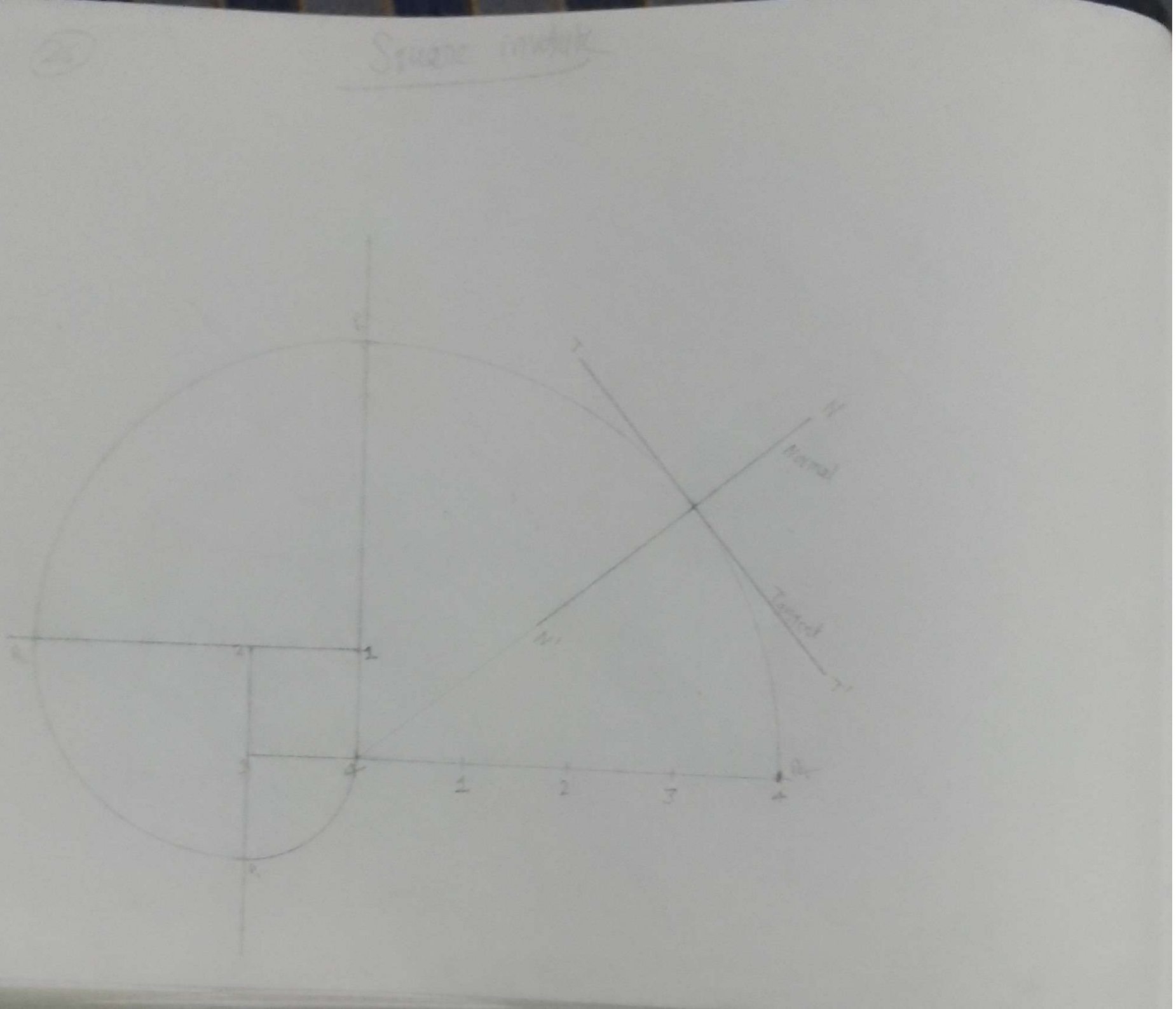
$\theta = 360 \times \frac{25}{90}$

$\theta = 100°$



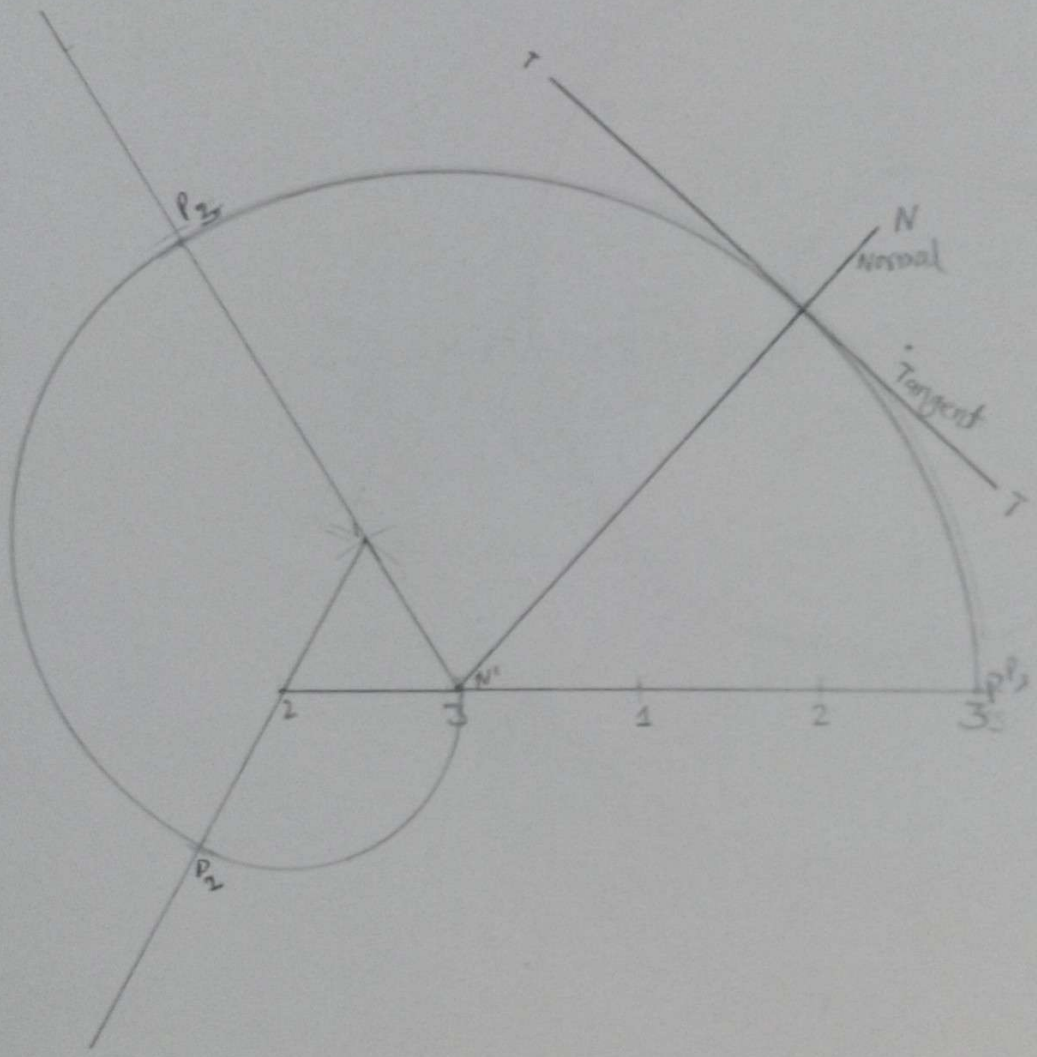
Cicular Involute




Normal
Tangent
1
2
3
4

Triangular Involute

27



(25)

Archimedean Spiral