

9. If the normal to the curve  $x^{2n} + y^{2n} = a^{2n}$  makes an angle  $\phi$  with the axis of  $x$ , show that its equation is  $y \cos \phi - x \sin \phi = a \cos 2\phi$ .
10. Find the angle of intersection of the curves  $x^2 - y^2 = a^2$  and  $x^2 + y^2 = a^2 \sqrt{2}$ .
11. Show that the parabolas  $y^2 = 4ax$  and  $2x^2 = ay$  intersect at an angle  $\tan^{-1}(\sqrt{2})$ .
12. Prove that the curves  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  and  $\frac{x^2}{a'^2} + \frac{y^2}{b'^2} = 1$  will cut orthogonally if  $a^2 + b^2 = a'^2 + b'^2$ .
13. Show that for the exponential curve  $y = be^{ax}$ , the subnormal is of constant length and that the subnormal varies as the square of the arc-length.
14. Find the lengths of the tangent, normal, subtangent and subnormal for the cycloid:  

$$x = a(t - \sin t), y = a(1 - \cos t)$$
15. For the curve  $x = a \cos^3 t, y = a \sin^3 t$ , show that the portion of the tangent intercepted between the point of contact and the  $x$ -axis is  $y \csc t$ . Also find the length of the subnormal.

## 15.1 POLAR CURVES

(1) **Angle between radius vector and tangent.** If  $\phi$  be the angle between the radius vector and the tangent at any point of the curve  $r = f(\theta)$ , then  $\phi = \pi - \frac{dr}{d\theta}$ .

Let  $P(r, \theta)$  and  $Q(r + \delta r, \theta + \delta \theta)$  be two neighbouring points on the curve (Fig. 4.5). Join  $PQ$  and draw  $PM \perp OQ$ . Then from the rt. angled  $\triangle OMP$ ,  $MP = r \sin \theta$ ,  $OQ = r \cos \theta$ .

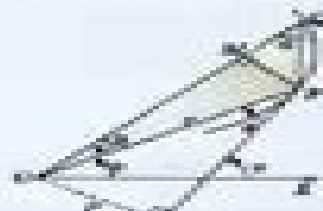


Fig. 4.5

$$\begin{aligned} MQ &= OQ - OM = r + \delta r - r \cos \theta \\ &= \delta r + r(1 - \cos \theta) = \delta r + 2r \sin^2 \frac{\theta}{2} \end{aligned}$$

If  $\angle MPQ = \alpha$ , then

$$\tan \alpha = \frac{MP}{MQ} = \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}}$$

In the limit as  $Q \rightarrow P$  (i.e.,  $\delta \theta \rightarrow 0$ ), the chord  $PQ$  turns about  $P$  and becomes the tangent at  $P$  and  $\alpha \rightarrow \phi$ .

$$\begin{aligned} \tan \phi &= \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} = \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} \\ &= \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} = \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} \\ &= \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} = \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} \\ &= \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} = \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} \\ &= \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} = \lim_{\delta \theta \rightarrow 0} \frac{r \sin \theta}{\delta r + 2r \sin^2 \frac{\theta}{2}} \end{aligned}$$

(M.T.T., 2002)

**Cor. Angle of intersection of two curves.** If  $\theta_1, \theta_2$  be the angles between the common radius vector and the tangents to the two curves at their point of intersection, then the angle of intersection of these curves is  $\theta_1 - \theta_2$ .

(2) **Length of the perpendicular from pole on the tangent.** If  $p$  be the perpendicular from the pole on the tangent, then

$$(1) \quad p = r \sin \phi$$

$$(2) \quad \frac{1}{p^2} = \frac{1}{r^2} + \frac{1}{r^2} \left( \frac{dr}{d\theta} \right)^2$$

From the rt.  $\triangle OMP$ ,  $p = r \sin \phi$

$$\frac{1}{p^2} = \frac{1}{r^2} \csc^2 \phi = \frac{1}{r^2} (1 + \cot^2 \phi)$$

$$= \frac{1}{r^2} \left[ 1 + \frac{1}{r^2} \left( \frac{dr}{d\theta} \right)^2 \right] = \frac{1}{r^2} + \frac{1}{r^4} \left( \frac{dr}{d\theta} \right)^2$$

(By 4.2.6)

(3) **Polar subtangent and subnormal.** Let the tangent and the normal at any point  $P(r, \theta)$  of a curve meet the line through the pole perpendicular to the radius vector  $OP$  at  $T$  and  $N$  respectively (Fig. 4.6). Then  $OT$  is called the polar subtangent and  $ON$  the polar subnormal.

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