

Fig. 5.29

(a) transverse axis parallel to the  $x$ -axis

(a) **Transverse axis parallel to the  $x$ -axis.**

The equation of a hyperbola with centre  $C(h, k)$  and transverse axis parallel to the  $x$ -axis (Fig. 5.29) is given by  $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$ .

The coordinates of the vertices are  $A(h + a, k)$  and  $A'(h - a, k)$ . The coordinates of the foci are  $S(h + c, k)$  and  $S'(h - c, k)$  where  $c^2 = a^2 + b^2$ .

The equations of directrices are  $x = \pm \frac{a}{e}$ .

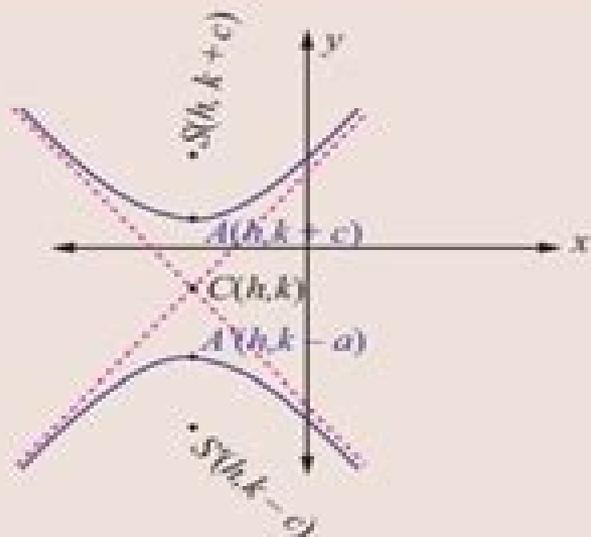


Fig. 5.30

(b) transverse axis parallel to the  $y$ -axis

(b) **Transverse axis parallel to the  $y$ -axis**

The equation of a hyperbola with centre  $C(h, k)$  and transverse axis parallel to the  $y$ -axis (Fig. 5.0) is given by

$$\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1.$$

The coordinates of the vertices are  $A(h, k + a)$  and  $A'(h, k - a)$ . The coordinates of the foci are  $S(h, k + c)$  and  $S'(h, k - c)$ , where  $c^2 = a^2 + b^2$ .

The equations of directrices are  $y = \pm \frac{a}{e}$ .

# Hyperbola Problems And Solutions

**Padhraic Smyth**



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