Conic Section

$$Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$$

with horizontal
$$\frac{(M-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

with vertical major
$$(M-h)^2 + (y-K)^2 = 1$$

$$\frac{(y-h)^2}{(y-k)^2} = 1$$

axis

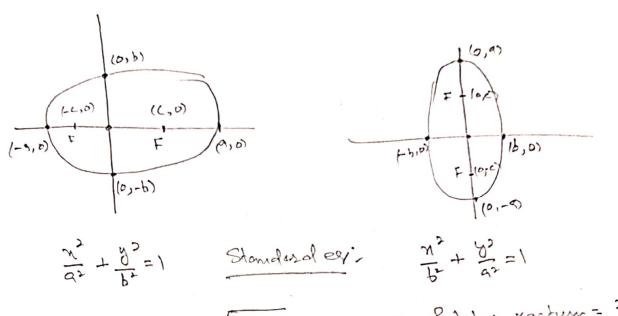
distance b/w the vertices is 29 $= -\frac{1}{2} + \frac{1}{2}$ $= -\frac{1}{2} + \frac{1}{2}$ $= -\frac{1}{2} + \frac{1}{2}$

$$C^{2} = 9^{2} + b^{2}$$

Hyperbola with

Hyperbola with vertical transverse
$$(y-k)^2 = (m-h)^2 = 1$$

Ellipse:



: eccentricity e= \(\frac{b}{a} \)

Longth of laters rectum = 262

Hyperbota

