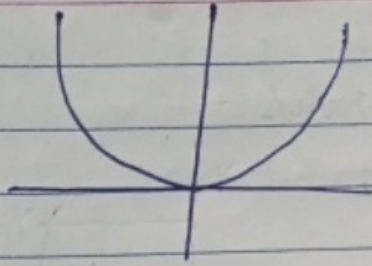
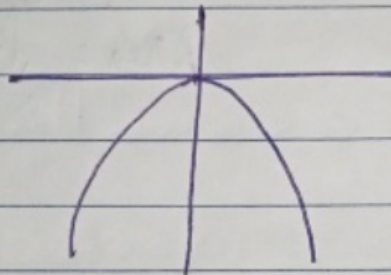
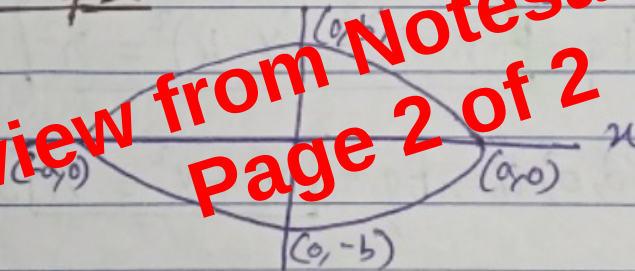


* Upward parabola

$$x^2 = 4ay$$

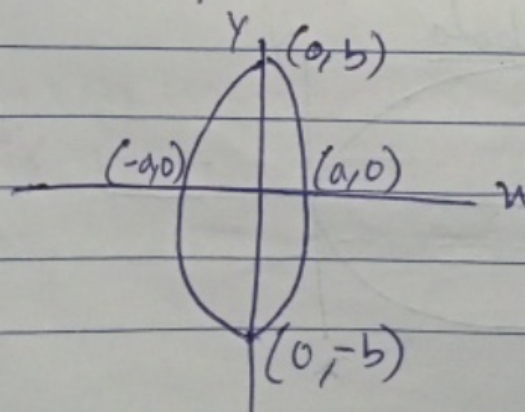
* Downward parabola

$$x^2 = -4ay$$

Ellipse* Horizontal ellipse

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

$$a^2 > b^2$$

Vertical Ellipse

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

$$b^2 > a^2$$