



9.3.1 Derive the standard equations of parabola, sketch their graphs and find their elements:

(a) Standard equations of parabola

- Standard equation of parabola when axis of parabola is along x -axis and vertex is at origin.

Consider a parabola whose vertex is at origin and axis of symmetry is along x -axis as shown in the figure 9.3.

Let $F(a, 0)$ be the focus on x -axis then the equation of directrix l will be $x = -a$ or $x + a = 0$.

Let $P(x, y)$ be any point on the parabola, where $a \neq 0$. (Fig. 9.3)

According to the definition of parabola

$|PF|$ = distance of P from l

$$\text{i.e., } \sqrt{(x - a)^2 + y^2} = |x + a|$$

Squaring both sides

$$\begin{aligned} (x - a)^2 + y^2 &= (x + a)^2 \\ \Rightarrow y^2 &= 4ax \end{aligned}$$

This is the required standard equation of parabola.

If $a > 0$ then it is cup-right parabola.

If $a < 0$ then it is cup-left parabola as shown in fig. 9.4.

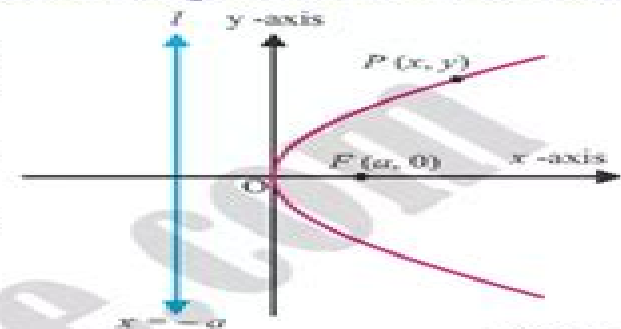
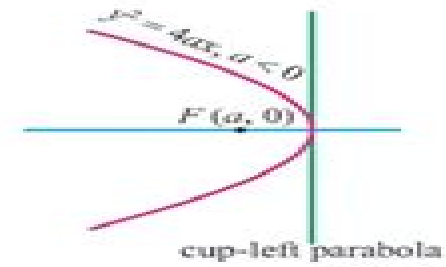


Fig 9.3



cup-right parabola



cup-left parabola

Fig 9.4

- Standard equation of parabola when axis of parabola is along y -axis and vertex is at origin.

By using definition of parabola, we can derive standard equation of parabola, when axis of parabola is along y -axis and vertex is at origin which is

$$x^2 = 4ay$$

where $F(0, a)$ is focus and equations of directrix is $y = -a$ as shown in fig. 9.5

If $a > 0$ then it is cup-up parabola.

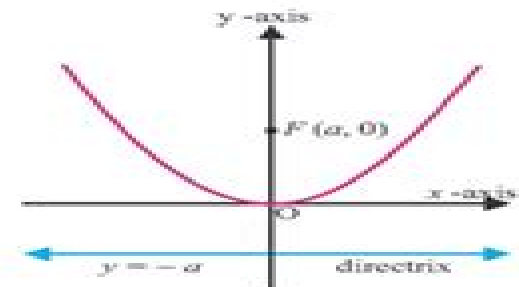


Fig 9.5

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