



### 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

$$(x - a)^2 + y^2 = (x + a)^2$$

$$\Rightarrow y^2 = 4ax$$

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.

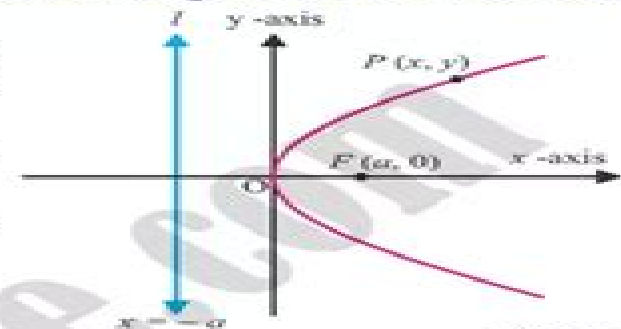
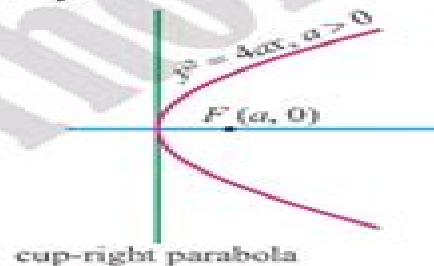
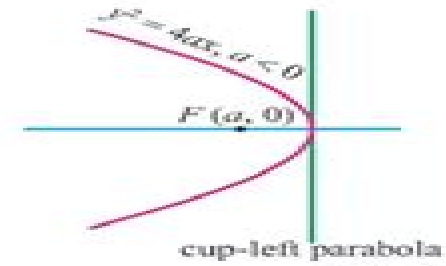


Fig 9.3



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.

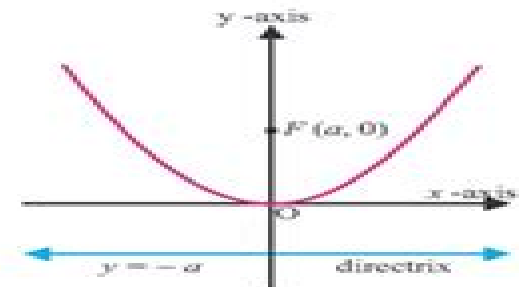


Fig 9.5

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