

PAG. 250 N 3

$$F(0, \frac{1}{3}) \quad d: y = -\frac{1}{3}$$

$$y = ax^2 \quad a = \frac{1}{4f} = \frac{1}{4 \cdot \frac{1}{3}} = \frac{3}{4}$$

$$y = \frac{3}{4}x^2$$

N 6

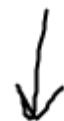
$$d: y = \frac{3}{2} \quad F(0, -\frac{3}{2}) \quad f = -\frac{3}{2}$$

$$a = \frac{1}{4f} = \frac{1}{4 \cdot (-\frac{3}{2})} = -\frac{1}{6}$$

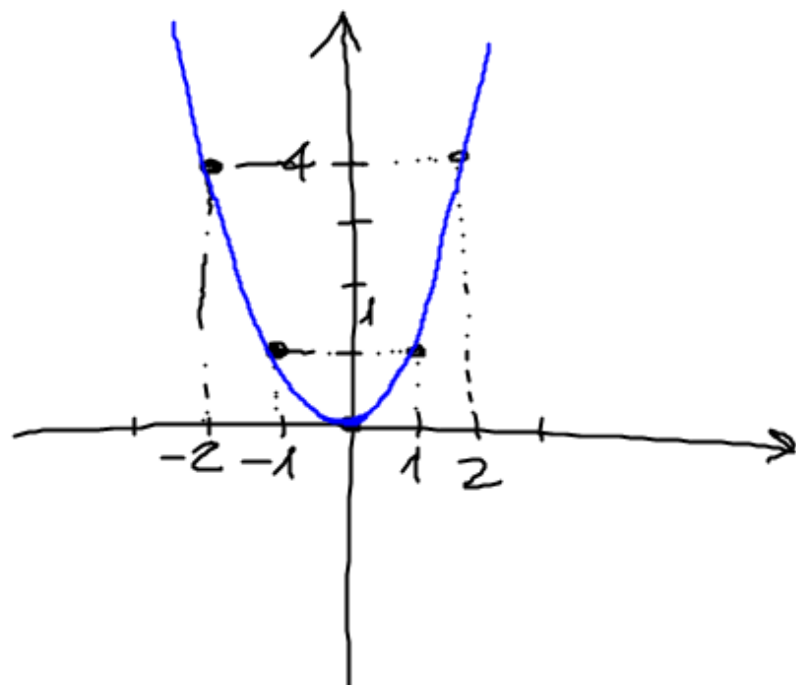
$$y = -\frac{1}{6}x^2$$

$$F(0, \frac{1}{4}) \quad a = \frac{1}{4 \cdot \frac{1}{4}} = 1$$

$$y = x^2$$



x	y
0	0
1	1
-1	1
2	4
-2	4



PAG. 251 N8

$$d: y = \frac{4}{3} \Rightarrow F(0, -\frac{4}{3})$$

$$a = \frac{1}{4f} = \frac{1}{4 \cdot (-\frac{4}{3})} = -\frac{3}{16}$$

$$\begin{array}{c} \updownarrow \\ f = \frac{1}{4a} \end{array}$$

$$\boxed{y = -\frac{3}{16} x^2}$$

N 10

$$y = \frac{3}{2}x^2$$

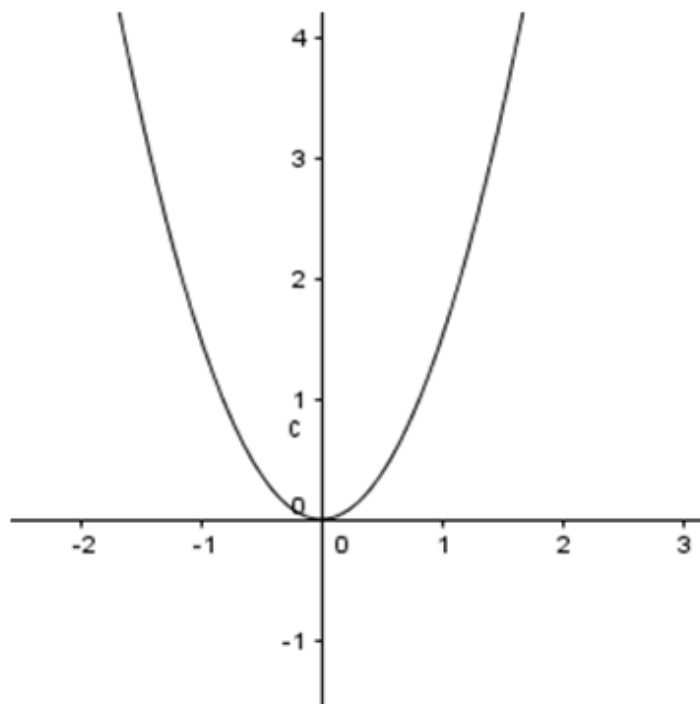
$$f = \frac{1}{4a} = \frac{1}{4 \cdot \frac{3}{2}} = \frac{1}{6}$$

VERTICE  $V(0,0)$

ASSE  $x=0$  (ASSE  $y$ )

FUOCO  $F(0, \frac{1}{6})$

DIRETTRICE  $y = -\frac{1}{6}$



N 11

$$y = -\frac{5}{8}x^2$$

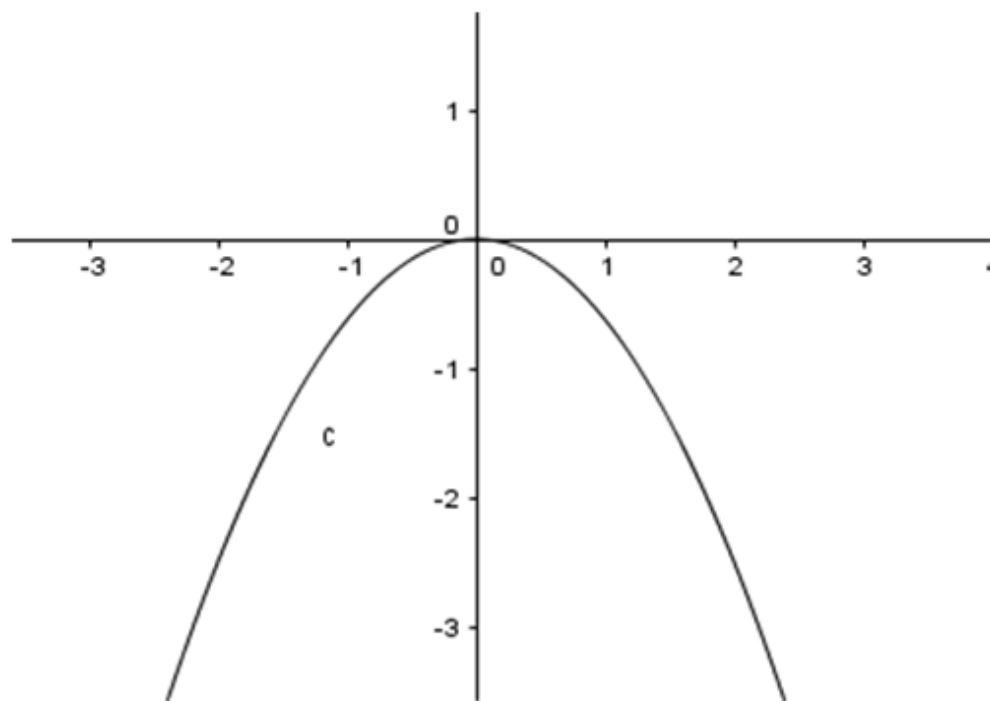
$$V(0,0)$$

ASSE  $x=0$

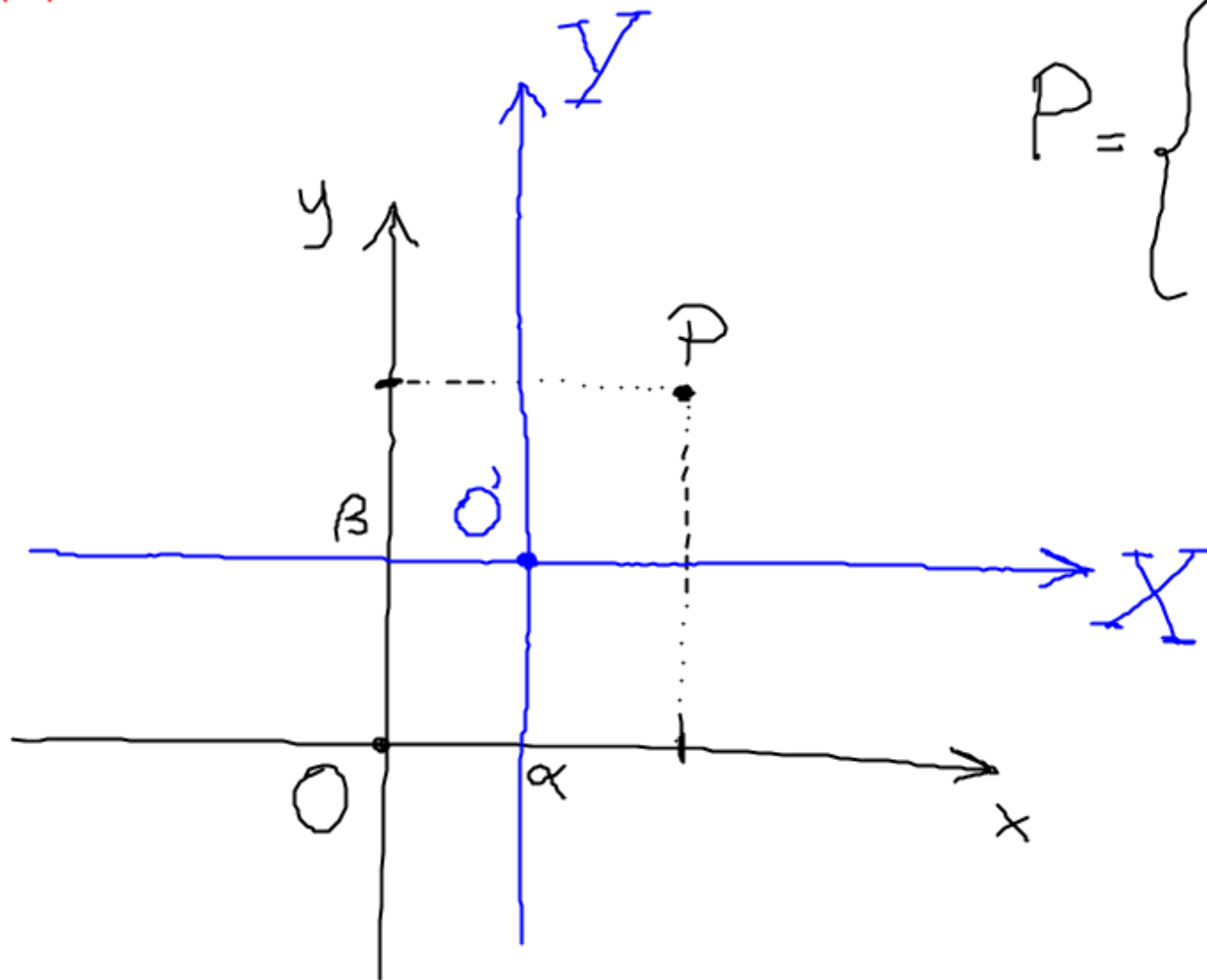
$$f = \frac{1}{4a} = \frac{1}{4 \cdot (-\frac{5}{8})} =$$
$$= -\frac{2}{5}$$

$$F(0, -\frac{2}{5})$$

$$d: y = \frac{2}{5}$$

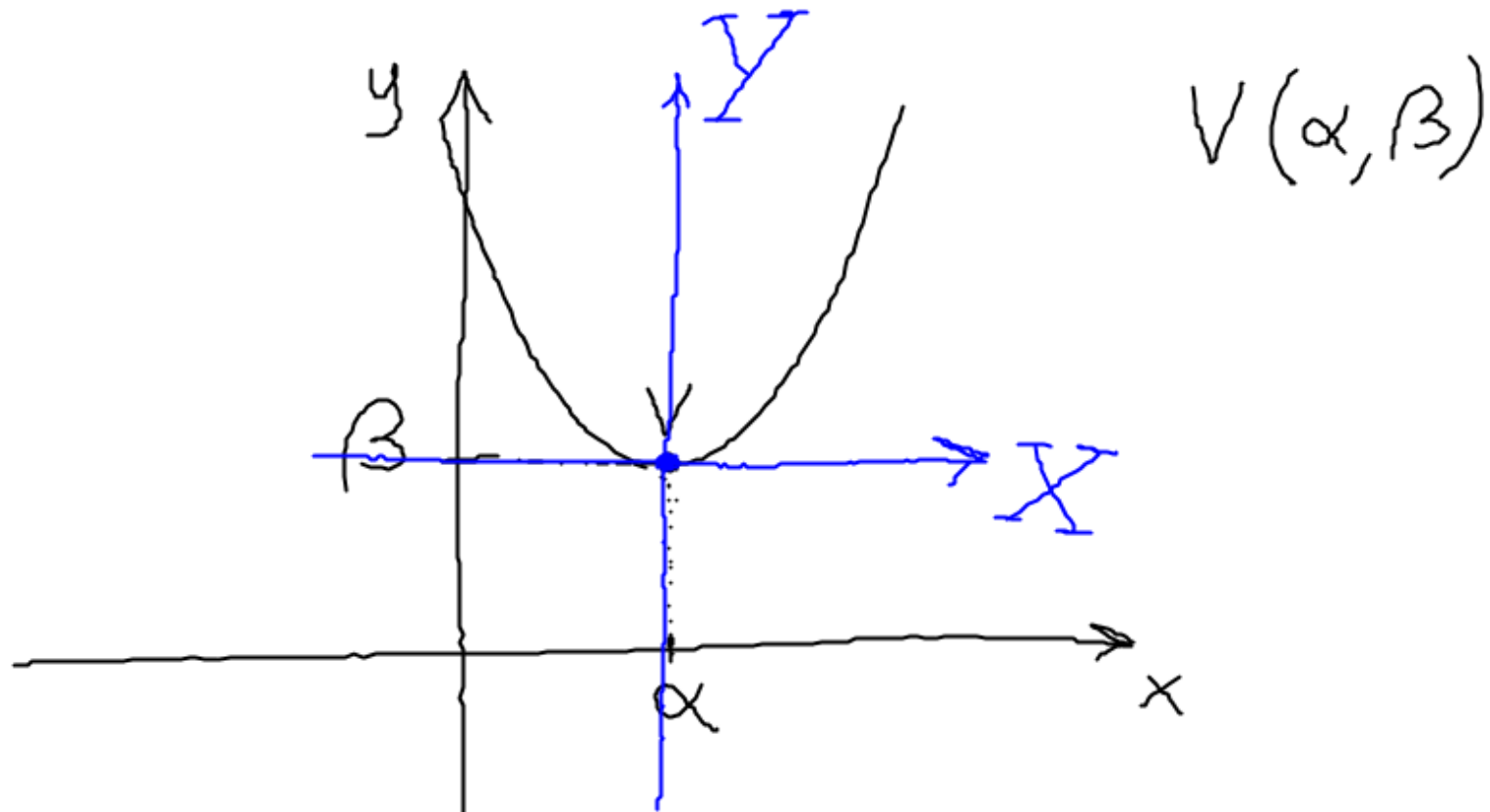


PREMESSA



$$P = \begin{cases} X = x - \alpha \\ Y = y - \beta \end{cases}$$

OBIETTIVO = Trovare l'equazione della parabola  
nel sistema di rif.  $xy$



L'eq. della  
parabola nel sistema di rif.  $XY$  è  $Y = aX^2$

$$Y = aX^2$$

$$\begin{cases} X = x - \alpha \\ Y = y - \beta \end{cases}$$