$$F(-\frac{\Delta}{4a} + (-\frac{\Delta}{4a}))$$

$$F(-\frac{\Delta}{2a}, \frac{1-\Delta}{4a})$$

$$A = \frac{1}{4a} + (-\frac{\Delta}{4a})$$

## PAG. 253 N 37

$$y = x^{2} - 4x + 3$$

$$-\frac{Q_{-}}{20} = -\frac{-4}{2} = 2$$

$$\Delta = b^{2} - 4\alpha c =$$
= 16 - 12 = 4

ASSF: 
$$x=2$$

VERTICE 
$$V(2,-1)$$

Fuoco 
$$F(2, \frac{1-4}{4}) = (2, -\frac{3}{4})$$

DIRETTRICE 
$$y = -\frac{1+4}{4}$$

$$y = -\frac{5}{4}$$

$$-\frac{1}{2a} = -\frac{4}{-4} = 1$$

$$V(1,2) F(1,\frac{15}{8})$$

DIR. 
$$y = \frac{17}{8} \frac{-1-16}{4(-2)} = \frac{-17}{-8} = \frac{17}{8}$$

$$y = -\frac{1}{2}x^2 - \frac{1}{4}$$

$$\alpha = -\frac{1}{2} - \frac{b}{2a} = 0$$

$$a = -\frac{1}{2} - \frac{b}{2a} = 0$$

$$b = 0$$

$$c = -\frac{1}{4} \qquad \Delta = 0^2 - 4(-\frac{1}{2})(\frac{1}{4}) = 0$$

$$= -\frac{1}{2}$$

$$-\frac{\triangle}{40} = -\frac{1}{4(-\frac{1}{4})} = -\frac{1}{4}$$

$$\frac{1-\Delta}{4\alpha} = \frac{1-(-\frac{1}{2})}{4(-\frac{1}{2})} = \frac{1+\frac{1}{2}}{-2} = \frac{\frac{3}{2}}{-2} = -\frac{3}{2}\cdot\frac{1}{2} = -\frac{3}{4}$$

$$-\frac{1+\Delta}{4a} = -\frac{1-\frac{1}{2}}{-2} = -\frac{\frac{1}{2}}{-2} = \frac{1}{4}$$

ASSE 
$$x=0$$

$$V(0,-\frac{1}{4})$$

$$F(0,-\frac{3}{4})$$

$$81R. y = \frac{1}{4}$$

$$y + 4x = x^{2} + 2$$
  
 $y = x^{2} - 4x + 2$ 

$$-\frac{l}{ra} = 2$$

$$-\frac{\Delta}{4\alpha} = -\frac{8}{4} = -2$$

$$\frac{1-\Delta}{4\alpha} = \frac{1-8}{4} = -\frac{7}{4}$$

$$-\frac{1+2}{40} = -\frac{1+8}{4} = -\frac{9}{4}$$

ASSE 
$$x=2$$
 $V(2,-2)$ 
 $F(2,-\frac{7}{4})$ 
 $d: y=-\frac{9}{4}$ 

N 30

$$F(-2,-1) d: y=-3$$

$$-\sqrt{(x+2)^2+(y+1)^2} = |y+3|$$

$$(x+2)^2+(y+1)^2=(y+3)^2$$

$$x^2+4+4x+y^2+1+2y=x^2+9+6y$$

$$x^2+5-9+4x=-2y+6y$$

$$x^2-4+4x=4y$$

## MODO ALTERNATIVO

$$F(-2,-1) \qquad y=-3$$

$$y=\alpha \times^{2}+lr\times+c$$

$$OBIETTIVO = There a, lr, c$$

$$F(-\frac{l}{2\alpha}, \frac{1-\Delta}{4\alpha}) \qquad y=-\frac{1+\Delta}{4\alpha}$$

$$\begin{pmatrix} -\frac{l}{2\alpha}=-2 & lr=4\alpha \\ \frac{1-\Delta}{4\alpha}=-1 & lr=4\alpha \\ -\frac{1+\Delta}{4\alpha}=-3 & lr=4\alpha \end{pmatrix}$$

$$lr=4\alpha \implies lr=4\alpha$$

$$lr=4\alpha$$

$$lr=4\alpha \implies lr=4\alpha$$

$$lr=4\alpha$$

$$lr=4$$