

Parabolas

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

Write in standard form, then:

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

1) Find the coordinates of:

a) the vertex $V(-1, -1)$

b) the focus $F(-1, \frac{3}{8})$

2) Find the equation of:

a) line of symmetry

$$x = -1$$

b) directrix line

$$y = -\frac{9}{8}$$

3) graph the parabola

$a > 0$

x	0	1
y	1	7

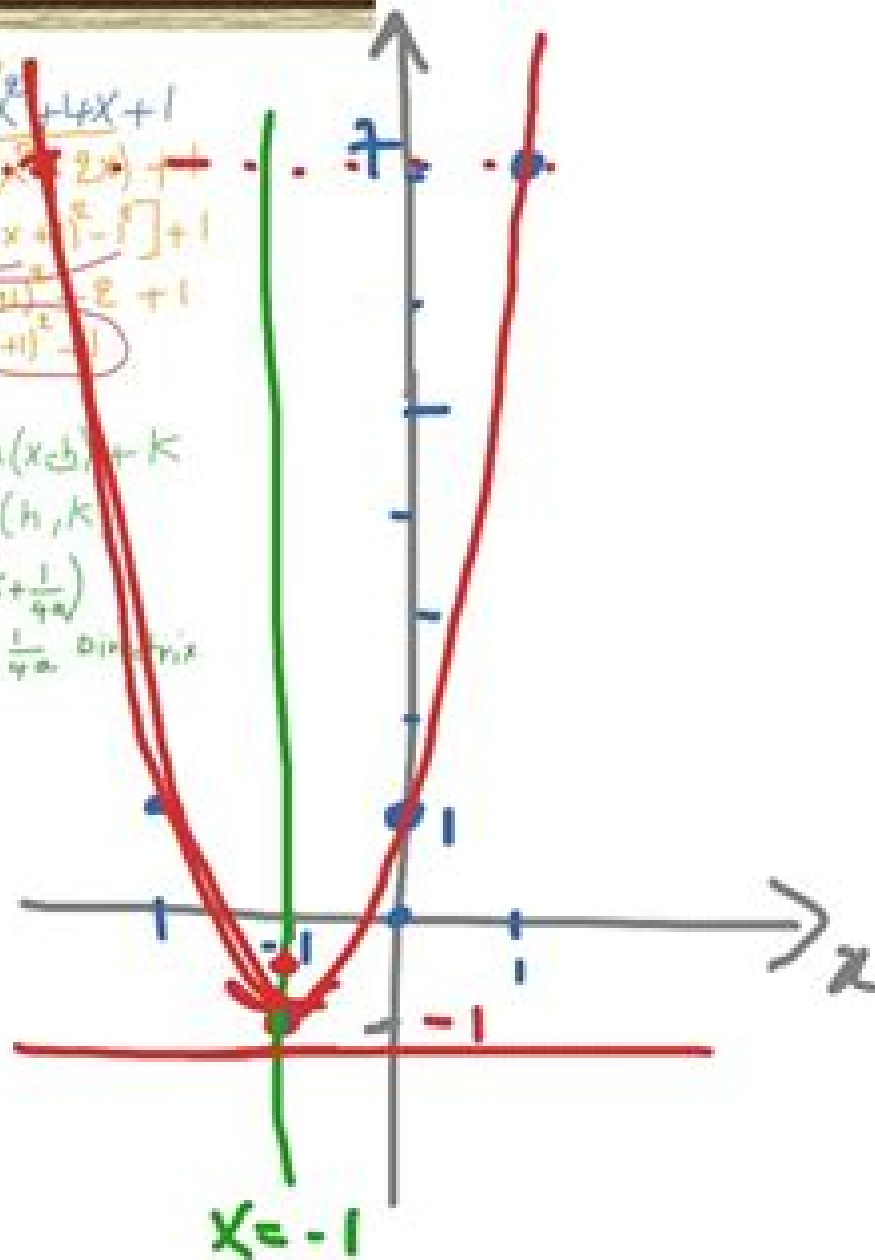
$$\begin{aligned} y &= 2x^2 + 4x + 1 \\ &= 2(x^2 + 2x) + 1 \\ &= 2[(x+1)^2 - 1] + 1 \\ &= 2(x+1)^2 - 2 + 1 \\ &= 2(x+1)^2 - 1 \end{aligned}$$

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

$$V(h, k)$$

$$F(h, k + \frac{1}{4a})$$

$$y = k - \frac{1}{4a} \text{ directrix}$$



Algebra 2 Parabolas

O García



Algebra 2 Parabolas:

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