

Horizontal

$$(y-k)^2 = 4p(x-h)$$

$$(y-2)^2 = 12(x+1)$$

P represents the units to move from vertex to get to focus and directrix.

Vertical

$$(x-h)^2 = 4p(y-k)$$

$$h = -1$$

$$k = 2$$

$$4p = 12$$

$$p = 3$$

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

$$\frac{4p}{4} = \frac{12}{4}$$

$$p = 3$$

12 represents the endpoints (shape) of parabola. From the focus go 6 units up and 6 units down.  $6 + 6 = 12$  units

