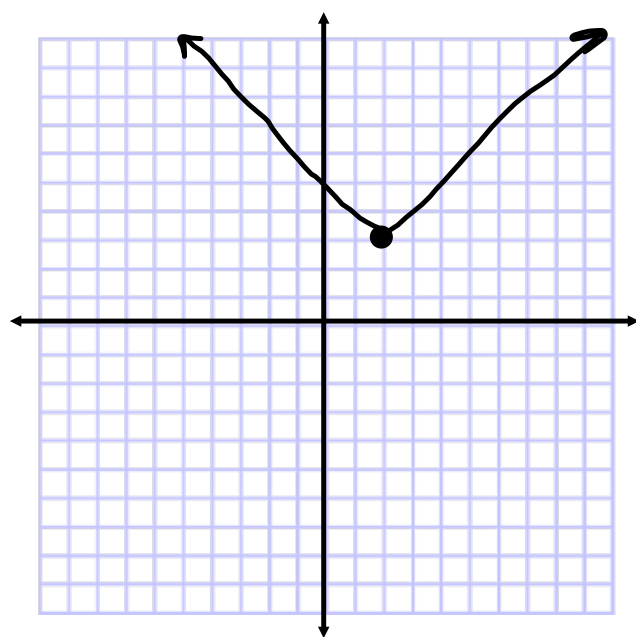


Vertex Form of Quadratic Functions

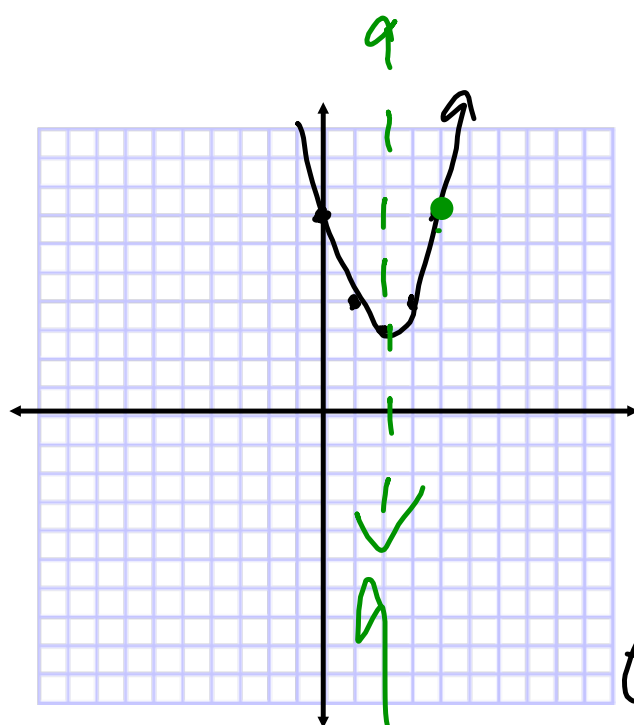


Review:

Abs. Value Fxns

$$f(x) = |x - 2| + 3$$

$$(h, k) = (2, 3)$$



$$f(x) = (x-2)^2 + 3$$

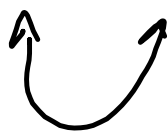
$$(h, k) = (2, 3)$$

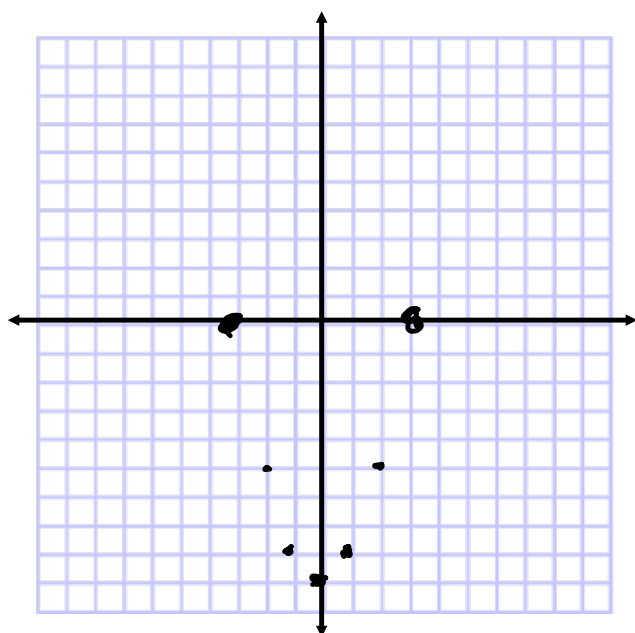
vertex form

$$f(x) = (x-h)^2 + k$$

Axis of symmetry

$$x=2$$





$$f(x) = (x-0)^2 - 9$$

$(h, k) \quad (0, -9)$

$$f(x) = x^2 - 9$$

$$f(x) = (x-3)(x+3)$$