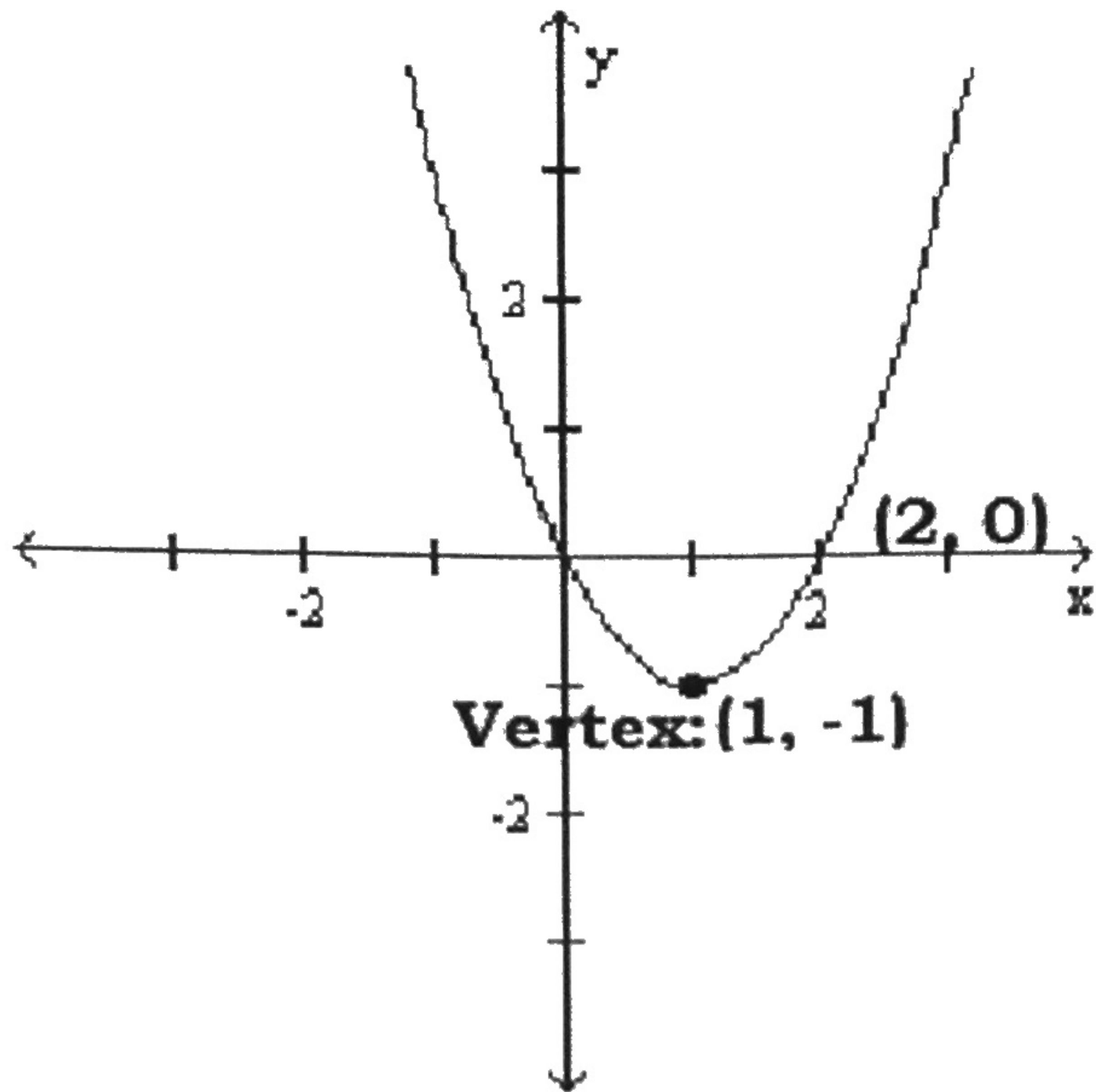


Determine the equation of the graph below:



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

$$0 = a(2-1)^2 - 1$$

$$0 = |a - 1$$

$$a = 1$$

$$f(x) = 1(x-1)^2 - 1$$

$$x^2 - 2x + 1 - 1$$

$$\boxed{x^2 - 2x}$$

Solve the following inequalities:

$$x^2 - 3x - 10 \leq 0$$

$$(x-5)(x+2) = 0$$

$$x = 5, -2$$

$$\boxed{x \geq -2}$$

$$\boxed{x \leq 5}$$

$$x^2 - 11x + 30 > 0$$

$$(x-6)(x-5) = 0$$

$$x = 6, 5$$

$$\boxed{x < -6}$$

$$\boxed{x > -5}$$

