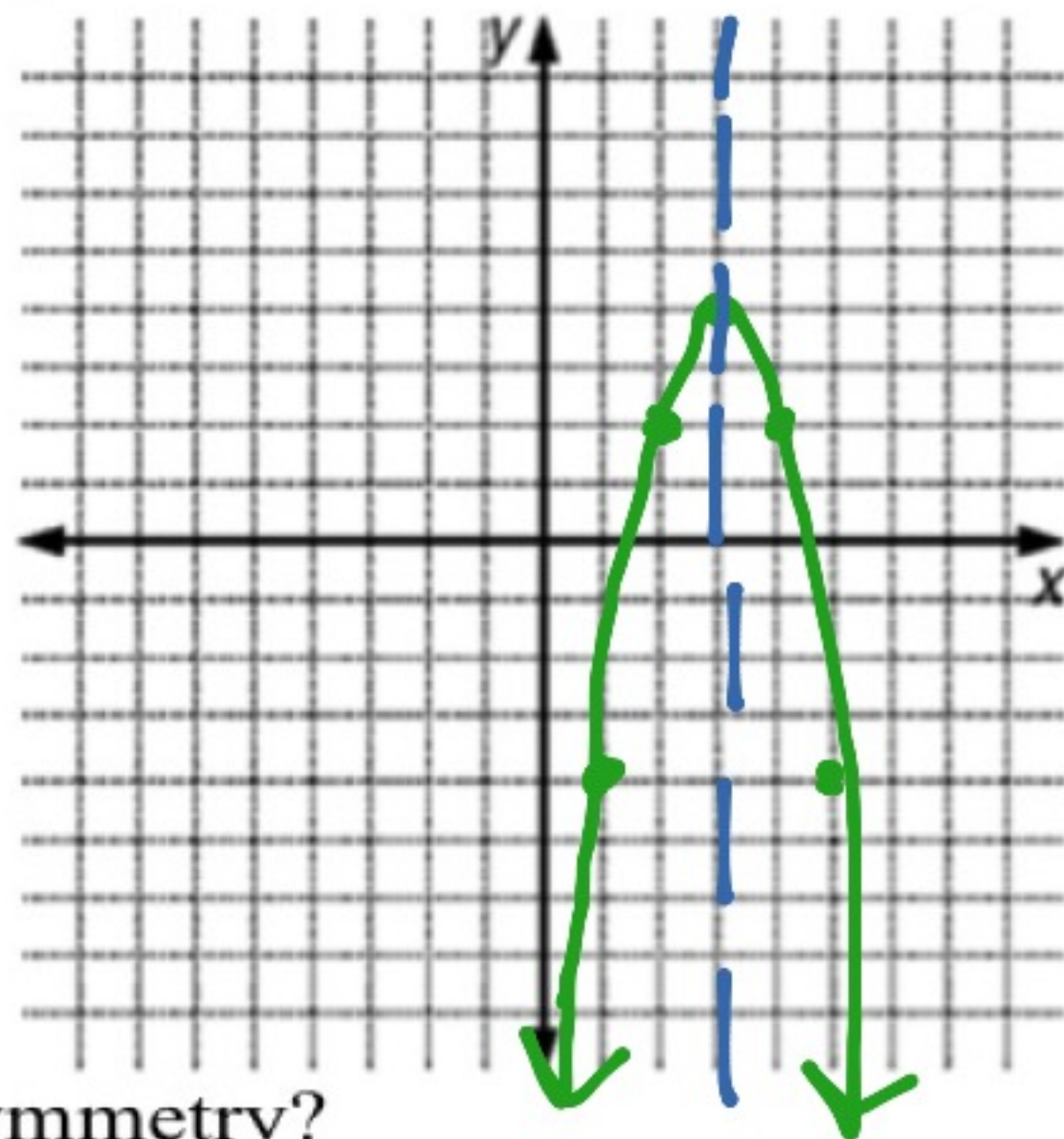


Graph a Quadratic Function in *Vertex Form*

Graph $f(x) = -2(x-3)^2 + 4$

x	y
1	-4
2	2
3	4
4	2
5	-4

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



1) What is the equation for the axis of symmetry?

$$x=3$$

2) Domain:

$$(-\infty, \infty)$$

Range:

$$(-\infty, 4]$$