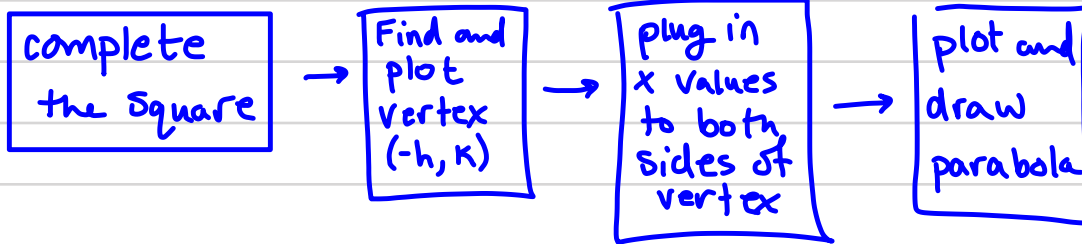


# Graphing Parabolas



Graph

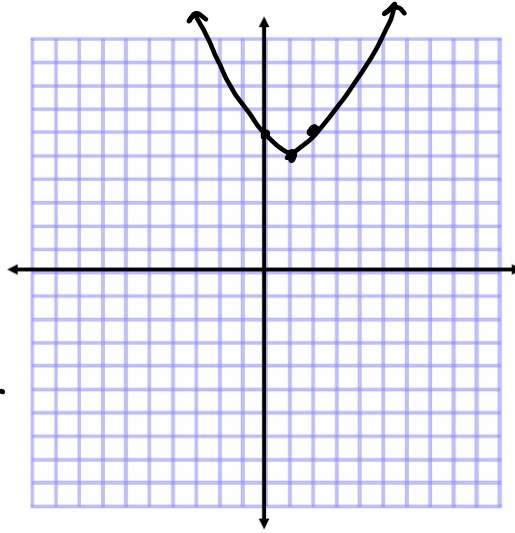
①  $y = x^2 - 2x + 6$   
 $y = (x-1)^2 + 5$

V: (1, 5)

x	$(x-1)^2 + 5$	y
0	$(-1)^2 + 5$	6
2	$1 + 5$	6

(0, 6)

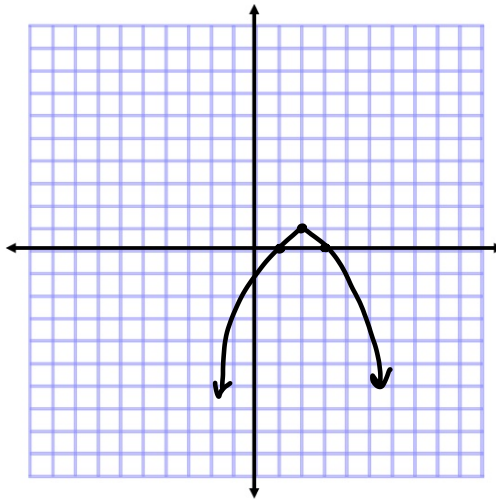
(2, 6)



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

②  $y = -(x-2)^2 + 1$   
 V: (2, 1)

x	$-(x-2)^2 + 1$	y
1	$-1 + 1$	0
3	$-1 + 1$	0



③  $y = -3(x+7)^2 + 5$

V: (-7, 5)

x	$-3(x+7)^2 + 5$	y
-8	$-3 + 5$	2
-6	$-3 + 5$	2

