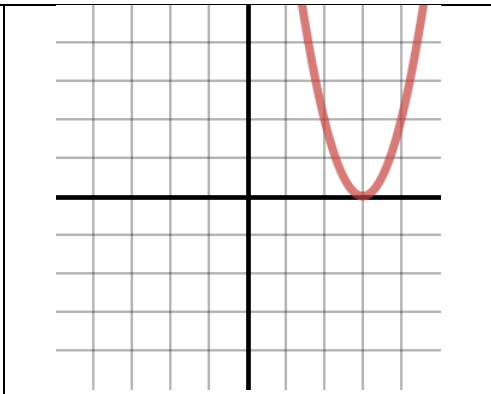
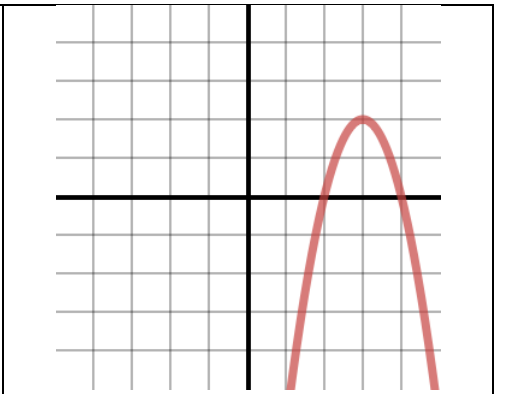


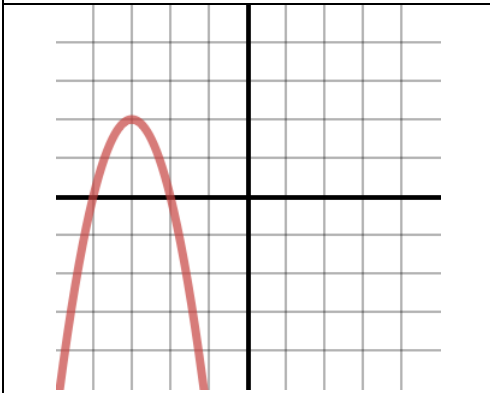
Graph 1



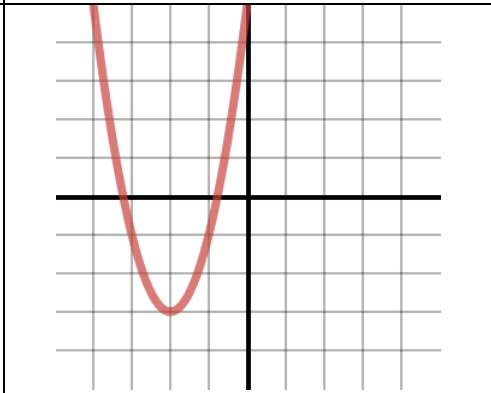
Graph 2



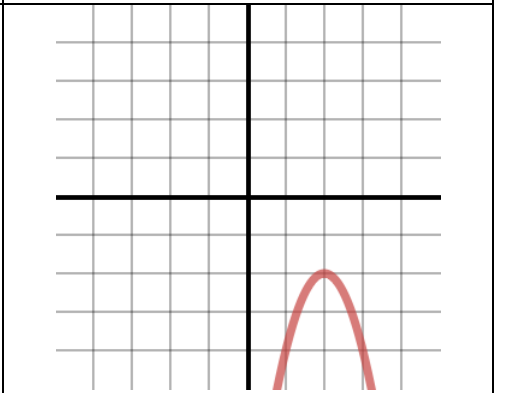
Graph 3



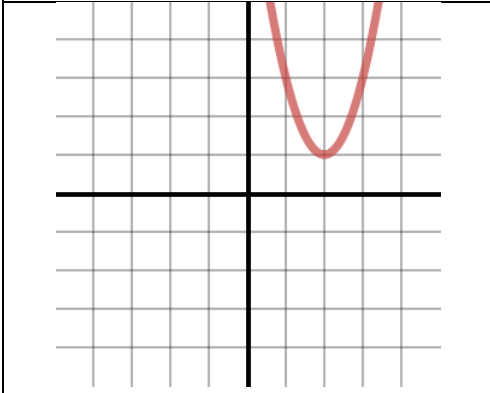
Graph 4



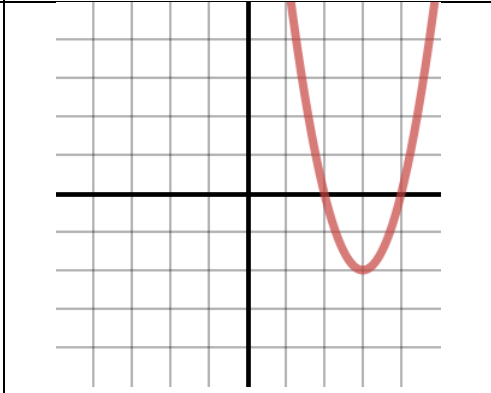
Graph 5



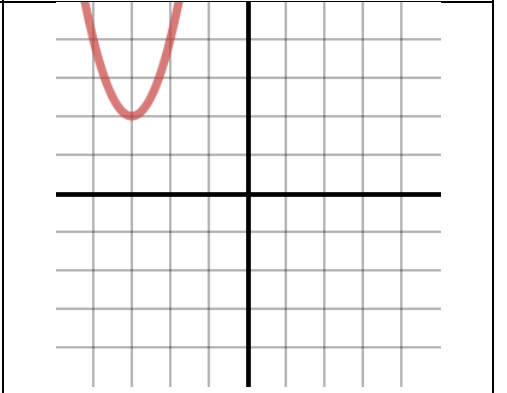
Graph 6



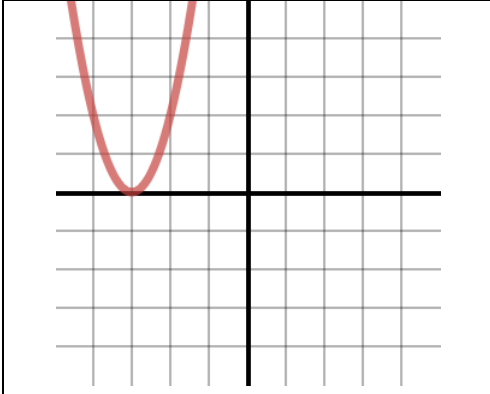
Graph 7



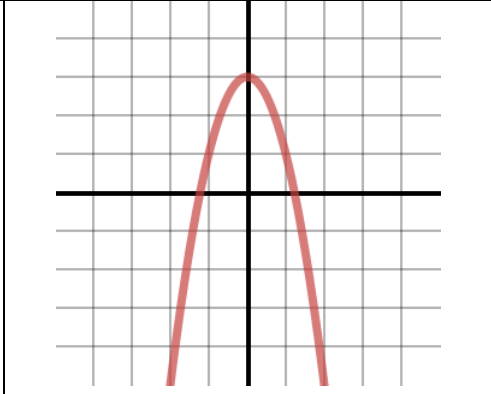
Graph 8



Graph 9



Graph 10



Graph 11



Graph 12

$$y = x^2$$

$$y = (x - 3)^2$$

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

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

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

$$y = -(x - 2)^2 - 2$$

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

$$y = (x - 3)^2 - 2$$

$$y = (x + 3)^2 + 2$$

$$y = (x + 3)^2$$

$$y = -x^2 + 3$$

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

$(0,0)$ Vertex	$(3,0)$ Vertex	$(3,2)$ Vertex
$(-3,2)$ Vertex	$(-2,-3)$ Vertex	$(2,-2)$ Vertex
$(2,1)$ Vertex	$(3,-2)$ Vertex	$(-3,2)$ Vertex
$(-3,0)$ Vertex	$(0,3)$ Vertex	$(-2,0)$ Vertex

Opens Up	Opens Up	Opens Down
Opens Down	Opens Up	Opens Down
Opens Up	Opens Up	Opens Up
Opens Up	Opens Down	Opens Down

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

$[0, \infty)$	$[0, \infty)$	$(-\infty, 2]$
Range	Range	Range
$(-\infty, 2]$	$[-3, \infty)$	$(-\infty, -2]$
Range	Range	Range
$[1, \infty)$	$[-2, \infty)$	$[2, \infty)$
Range	Range	Range
$[0, \infty)$	$(-\infty, 3]$	$(-\infty, 0]$
Range	Range	Range

