

Key

#	Name and Sketch the Function	Domain	Range	Vertical Asymptote	Horizontal Asymptote	Max/Min What is it? (x,y)
1	$y = 3x + 2$	$(-\infty, \infty)$	$(-\infty, \infty)$	none	none	none
2	$y = -\frac{1}{2}x + 1$	$(-\infty, \infty)$	$(-\infty, \infty)$	none	none	none
3	$x = 2$	$x = 2$	$(-\infty, \infty)$	none	none	none
4	$y = -5$	$(-\infty, \infty)$	$y = -5$	none	none	none
5	$y = x^2$	$(-\infty, \infty)$	$[0, \infty)$	none	none	min (0, 0)
6	$y = 2x^2 - 4$	$(-\infty, \infty)$	$[-4, \infty)$	none	none	(0, -4) min
7	$y = -2x^2 + 12x - 14$	$(-\infty, \infty)$	$(-\infty, 4]$	none	none	(3, 4) max.
8	$y = 3x^2 - 6x + 2$	$(-\infty, \infty)$	$[-1, \infty)$	none	none	(1, -1) min
9	$y = x - 2 + 4$	$(-\infty, \infty)$	$[4, \infty)$	none	none	(2, 4) min
10	$y = - x - 1 $	$(-\infty, \infty)$	$(-\infty, 0]$	none	none	(1, 0) max
11	$y = x - 3$	$(-\infty, \infty)$	$[-3, \infty)$	none	none	(0, -3) min