Linear Functions (tables)

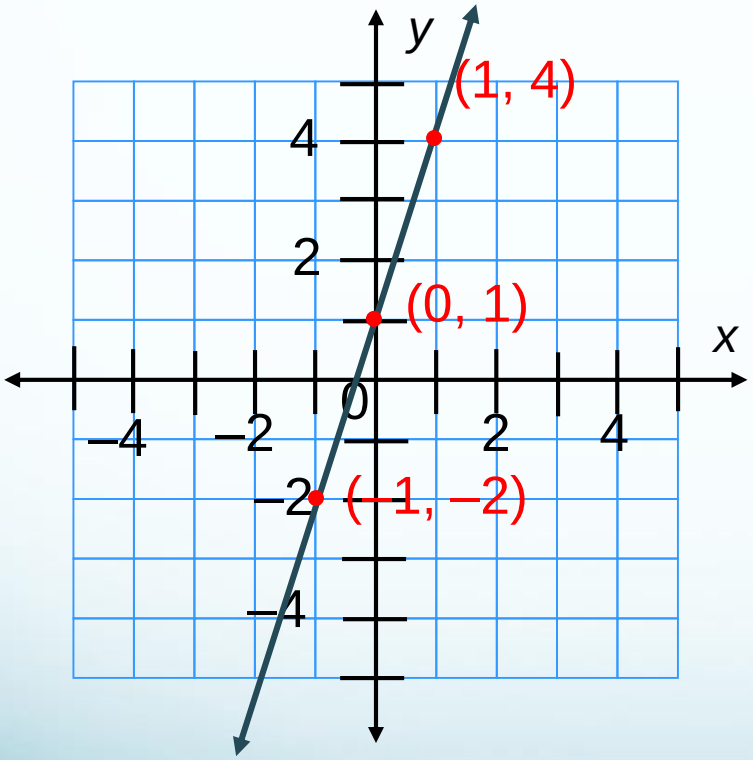
Example 1

Graph the linear function $y = 3x + 1$.

Input	Rule	Output	Ordered Pair
x	$3x + 1$	y	(x, y)
0	$3(0) + 1$	1	(0, 1)
1	$3(1) + 1$	4	(1, 4)
–1	$3(–1) + 1$	–2	(–1, –2)

Example 1 Continued

Graph the linear function $y = 3x + 1$.



Plot each ordered pair on the coordinate grid. Then connect the points with a line.

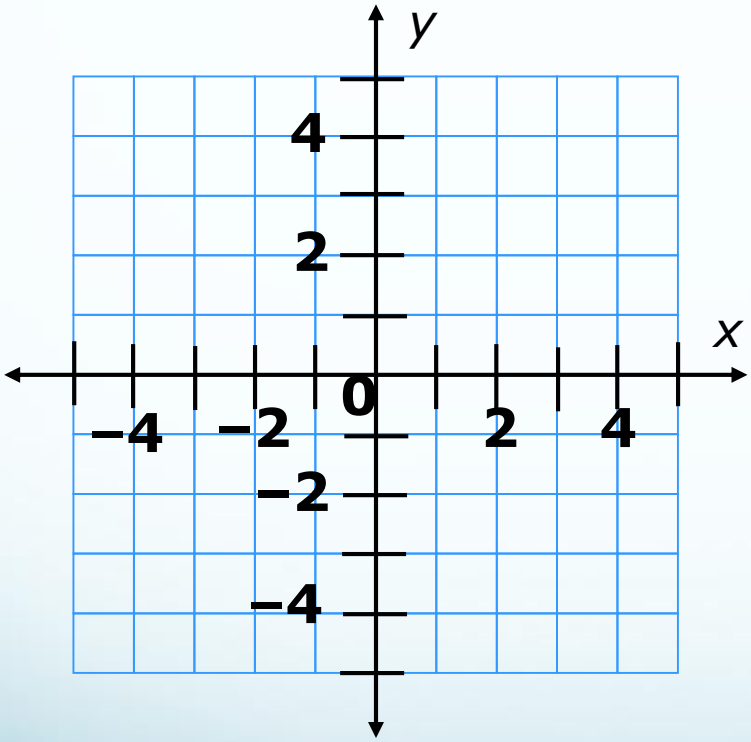
Practice

Graph the linear function $y = 4x - 1$.

Input	Rule	Output	Ordered Pair
x	$4x - 1$	y	(x, y)
0	$4(\quad) - 1$		
1	$4(\quad) - 1$		
–1	$4(\quad) - 1$		

Practice Continued

Graph the linear function $y = 4x - 1$.



Linear Functions

Ordered pairs that form a line are called a _____ _____.