NAME _____

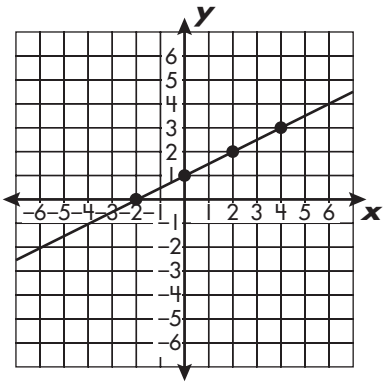
Lesson 3.5 Graphing Linear Equations

A **linear equation** is an equation that creates a straight line when graphed on a coordinate plane. To graph a linear equation, create a function table with at least 3 ordered pairs. Then, plot these ordered pairs on a coordinate plane. Draw a line through the points. In the table are some points for this linear function:

$$y = \frac{x}{2} + 1$$

These points are plotted on the line graph at the far right.

x	y
−2	0
0	1
2	2
4	3

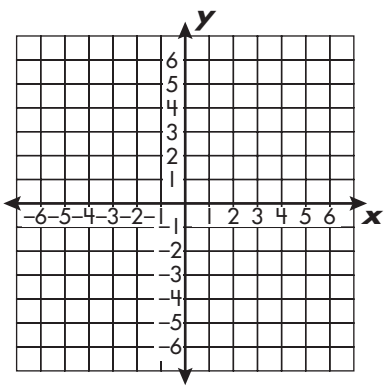


Complete the function table for each function. Then, graph the function.

a **b**

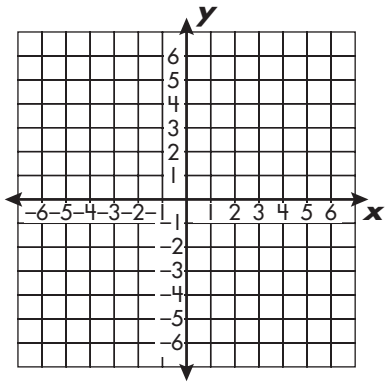
1. $y = x - 3$

x	y



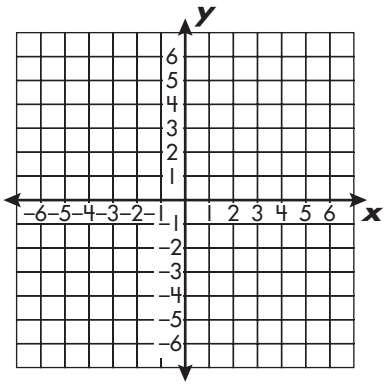
$y = 2x + 1$

x	y



2. $y = \frac{x}{2} - 2$

x	y



$y = \frac{x - 2}{3}$

x	y