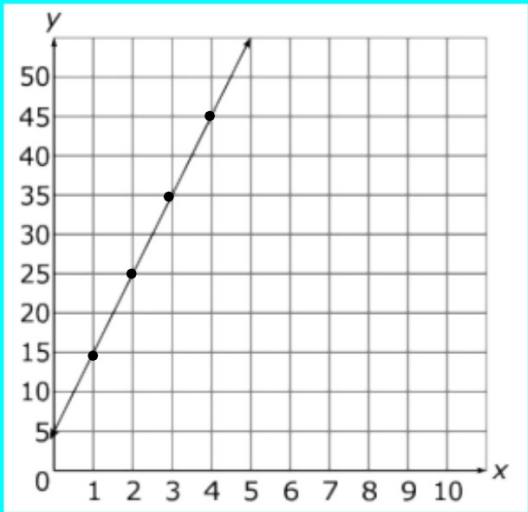
Warm Up

November 15, 2018

1.) Write the equation of the line graphed.



Write a linear equation given the following information

2.) $x - 2y = 3$

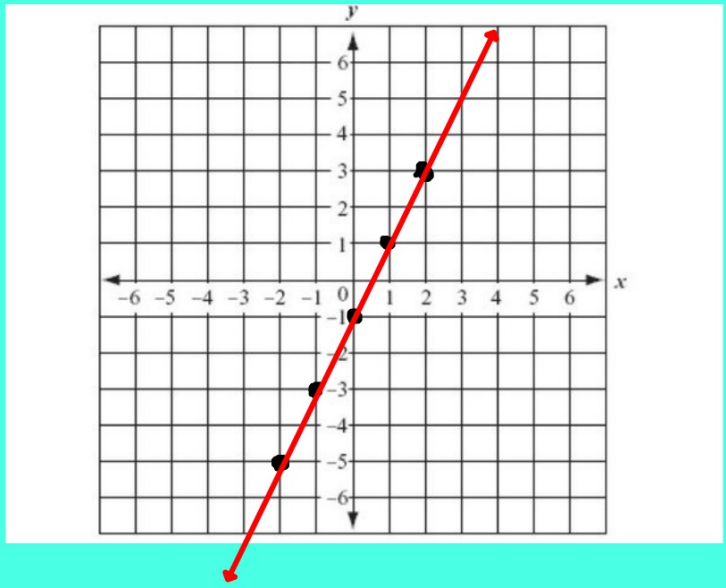
3.) $m = 1/4$; (0, 8)

4.) (4, -5) and (12, -3)

Graphing Linear Equations
INTRO

Let y = 2x - 1

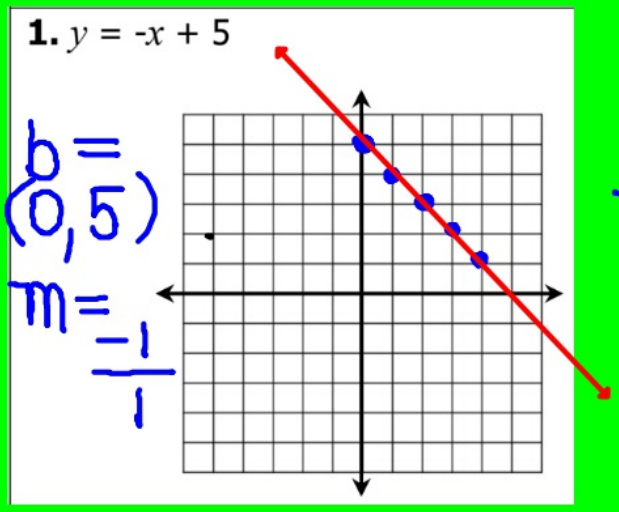
X	Y
−2	−5
−1	−3
0	−1
1	1
2	3



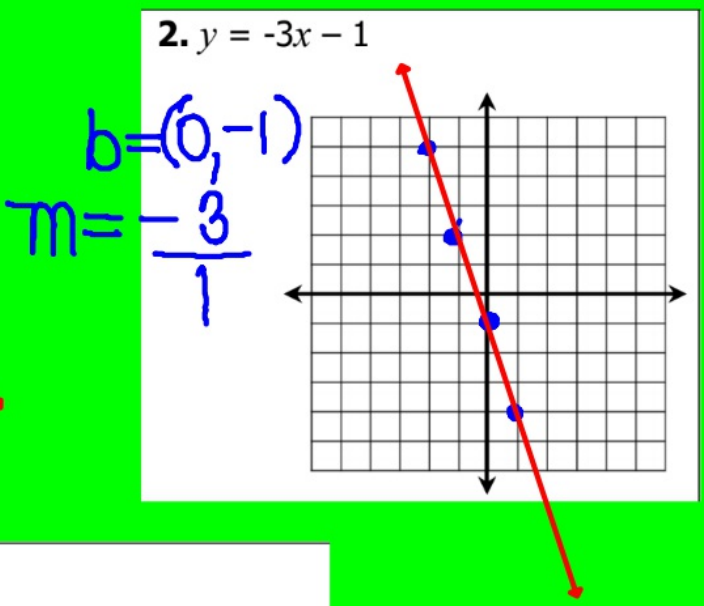
Without a Table

GRAPHING LINEAR EQUATIONS (By Slope-Intercept)	Use the steps below to graph an equation using slope-intercept form:
	❶ Write the equation in **slope-intercept form**.
	❷ Graph the ***y*-intercept**. This is always point (0, b).
	❸ Use the **slope** of the line to create more points. Remember slope is rise/run!
	❹ Use a ruler to draw a line that extends through the points, placing an arrow on both ends.

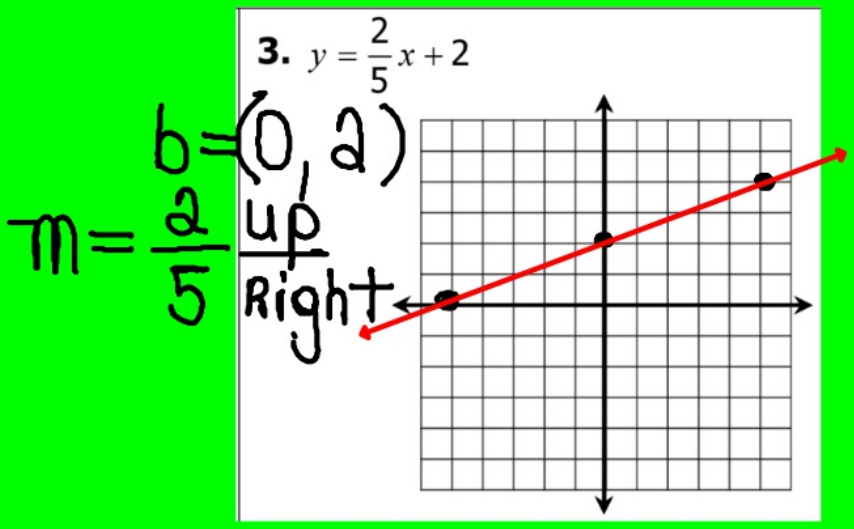
1. $y = -x + 5$



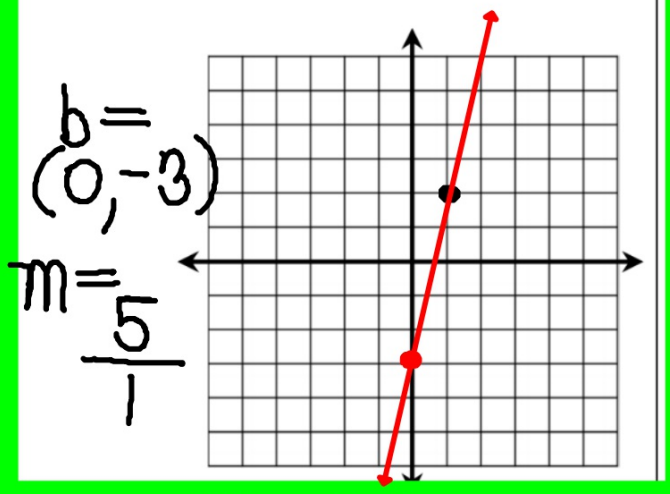
2. $y = -3x - 1$



3. $y = \frac{2}{5}x + 2$



7. $y = -3 + 5x$

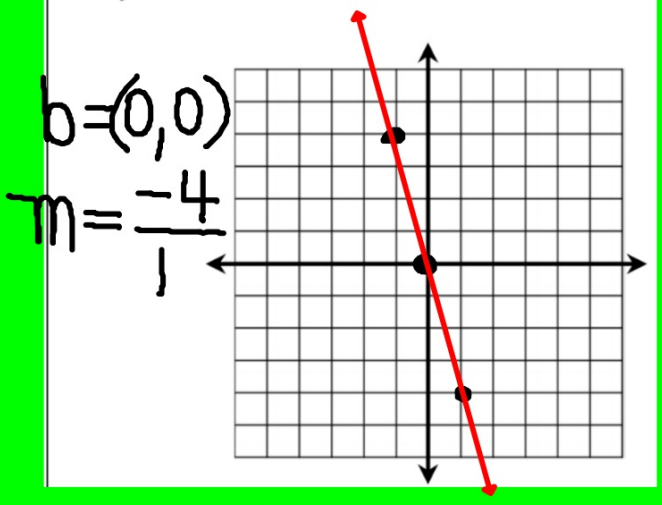


Check for
y = mx+b!

$y = -3 + 5x$

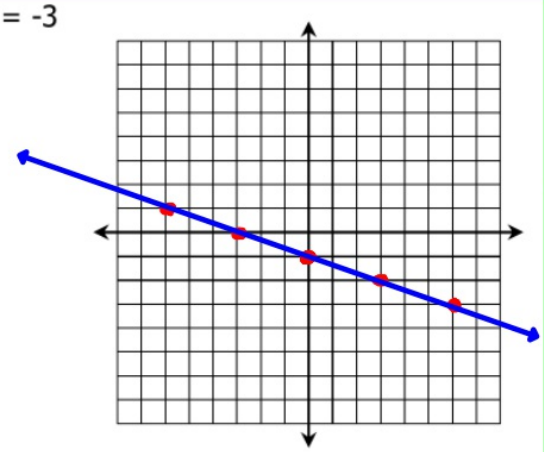
$y = 5x - 3$

8. $y = -4x$



What is the y-intercept?

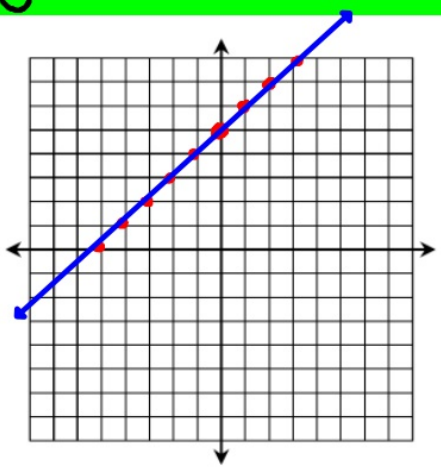
10. $x + 3y = -3$



$$x + 3y = -3$$
$$-x \quad\quad -x$$
$$3y = -x - 3$$
$$\frac{3y}{3} = \frac{-x}{3} - \frac{3}{3}$$
$$y = -\frac{1}{3}x - 1$$

What form do the equations need to be in before you can graph?

11. $x - y = -5$



$$x - y = -5$$
$$-x \quad y \quad -x$$
$$-y = -x - 5$$
$$\frac{-y}{-1} = \frac{-x}{-1} - \frac{5}{-1}$$
$$y = x + 5$$

Independent Practice!
Complete #4 -6 and 14-17