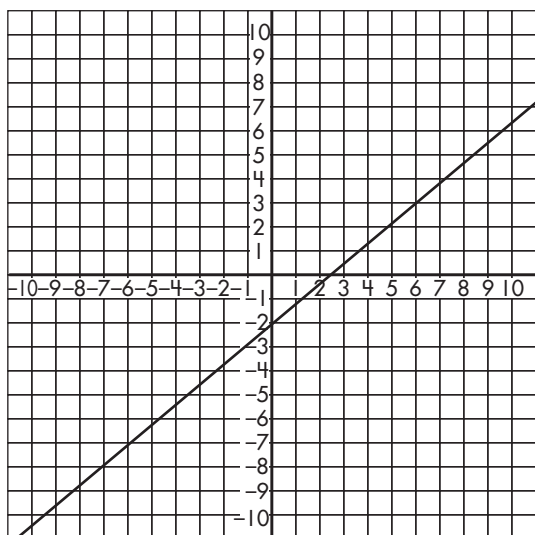


Lesson 3.2 Graphing Linear Equations Using Slope

When given the slope and intercept of any straight line, a linear equation can be created using the slope-intercept form.

Slope: $\frac{5}{6}$; Intercept: -2



Step 1: Use the equation $y = mx + b$, where m equals slope and b is the y -intercept.

Step 2: Substitute the known quantities for the slope and the y -intercept.

$$y = \frac{5}{6}x - 2$$

Use slope-intercept form to write equations given the conditions below.

a

1. slope: $\frac{4}{3}$; intercept: 3

2. slope: 3; intercept: -5

3. slope: -4 ; intercept: 6

b

slope: -2 ; intercept: 4

slope: $\frac{2}{5}$; intercept: 0

slope: $\frac{5}{2}$; intercept: -3

c

slope: $-\frac{1}{2}$; intercept: 7

slope: $-\frac{3}{4}$; intercept: -2

slope: $\frac{1}{2}$; intercept: 1
