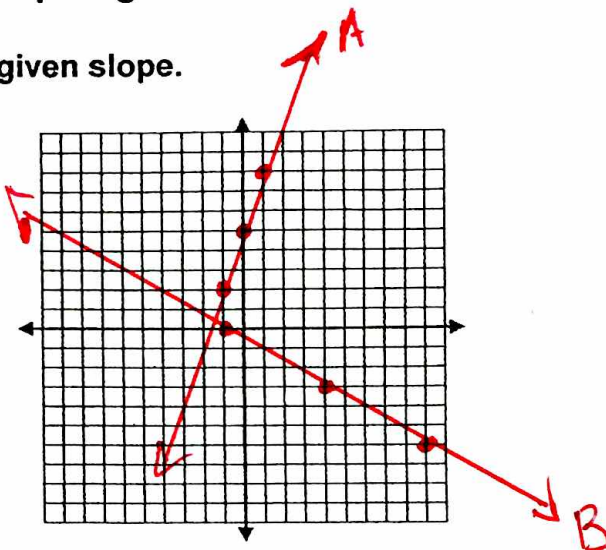


QUIZ B - Graphing Lines

Through the given point, draw a line with the given slope.

1. Line a: $(-1, 2)$; slope = 3

2. Line b: $(4, -3)$; slope = $-\frac{3}{5}$



State the slope and the y-intercept, then graph the line.

3. Line a: $y = -2x - 3$

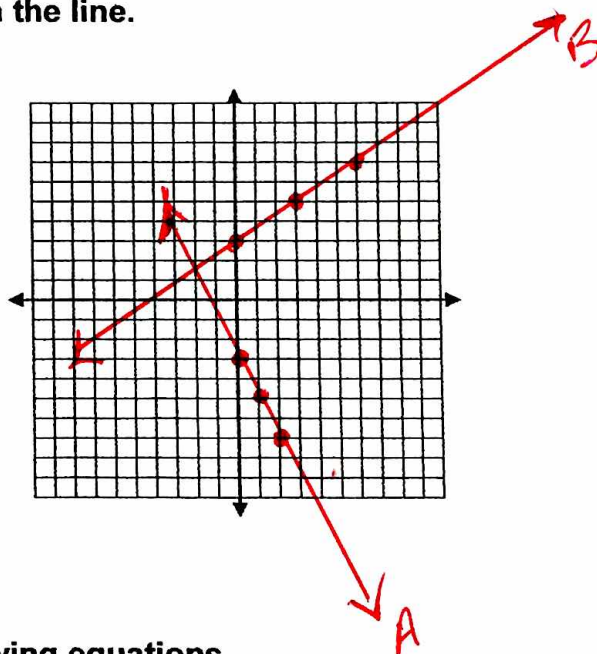
$m = -2$

$b = -3$

4. Line b: $y = \frac{2}{3}x + 3$

$m = \frac{2}{3}$

$b = 3$



Use the x- and y-intercepts to graph the following equations.

5. Line a: $x - 3y = 9$

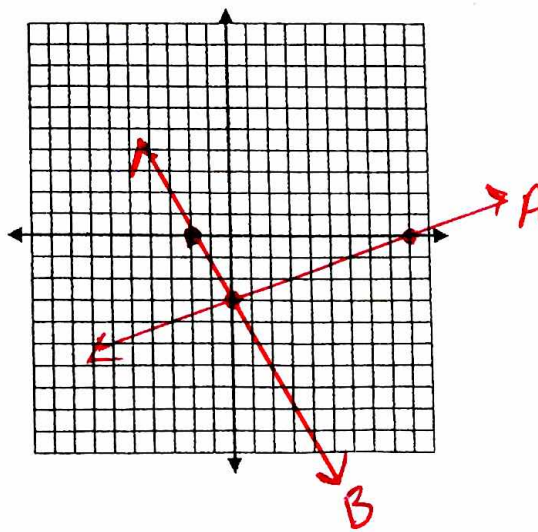
x-int = 9

y-int = -3

6. Line b: $3x + 2y = -6$

x-int = -2

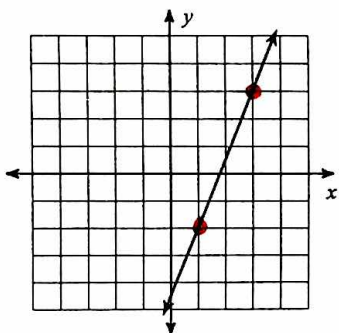
y-int = -3



Slope Quiz

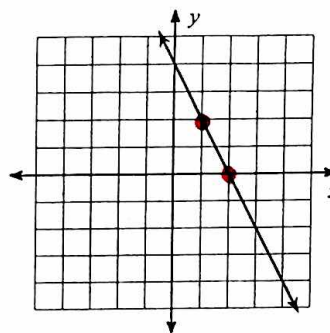
Find the slope of each line.

1)



$$m = \frac{5}{2}$$

2)



$$m = -2 \text{ or } -\frac{2}{1}$$

Find the slope of the line through each pair of points.

3) $(5, -16), (-15, -5)$

$$m = \frac{11}{-20}$$

4) $(8, 4), (-6, 13)$

$$m = \frac{9}{-14}$$

Find the slope of each line.

5) $y = \frac{3}{5}x - 1$

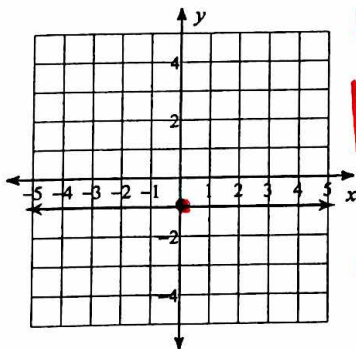
$$m = \frac{3}{5}$$

6) $y = \frac{3}{2}x$

$$m = \frac{3}{2}$$

Write the slope-intercept form of the equation of each line.

7)



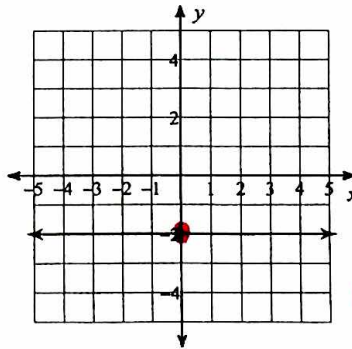
$$m = 0$$

$$b = -1$$

$$y = -1$$

$$y = 0x - 1$$

8)



$$m = 0$$

$$b = -2$$

$$y = -2$$

$$y = 0x - 2$$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

9) Slope = $-\frac{1}{5}$, y-intercept = 3

$$y = -\frac{1}{5}x + 3$$

10) Slope = $\frac{1}{5}$, y-intercept = -1

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