Name _____

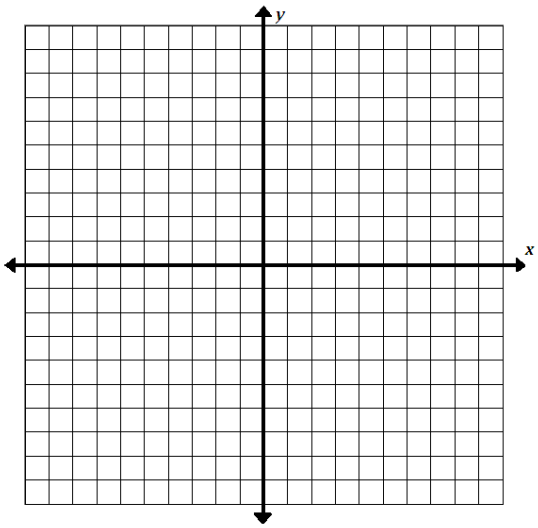
Mixed Review: Slope and Graphing Equations

1. Identify the slope and y-intercept for the equation. Then **graph** the equation.

   a. $y = -\frac{3}{2}x + 4$

   slope: _____

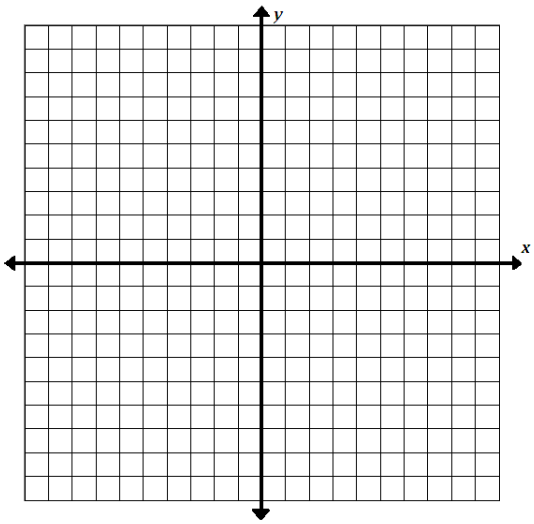
   y-intercept: _____



   b. $y = 3x - 7$

   slope: _____

   y-intercept: _____



2. Find the slope of the line through the given points.

   a. (–1, 2) (3, –1)

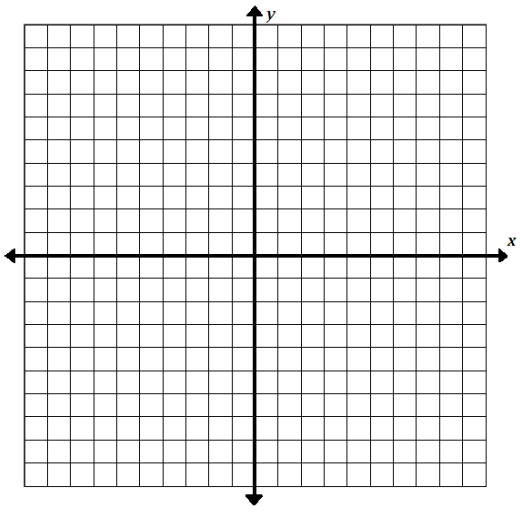
   b. (3, 0) (3, 5)

3. Find the x-intercept and y-intercept for the equation. Then graph the equation.

   a. $8x + 4y = 16$

   x-intercept: _____

   y-intercept: _____



4. Use the equation $y = 5x - 2$ to find the slope of the line, a parallel line, and a perpendicular line.

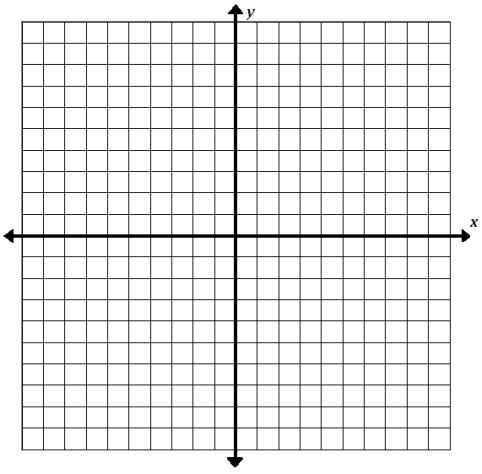
   Slope: _____

   Slope of a Parallel Line: _____

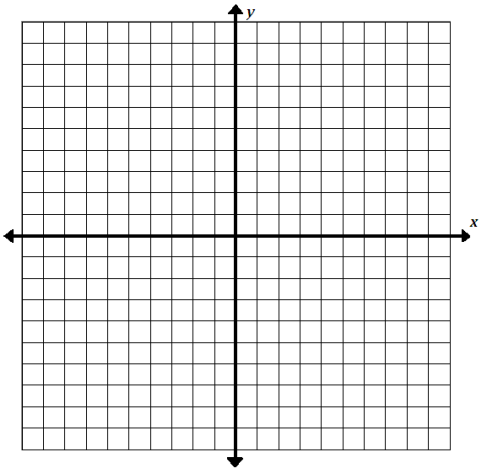
   Slope of a Perpendicular Line: _____

5. Graph the line.

   a. $x = 8$



   b. $y = -2$



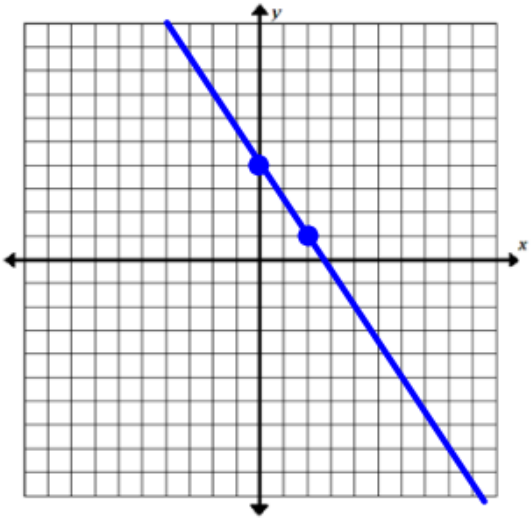
Mixed Review: Slope and Graphing Equations Answers

1. Identify the slope and y-intercept for the equation. Then **graph** the equation.

   a. $y = -\frac{3}{2}x + 4$

   slope: $-\frac{3}{2}$

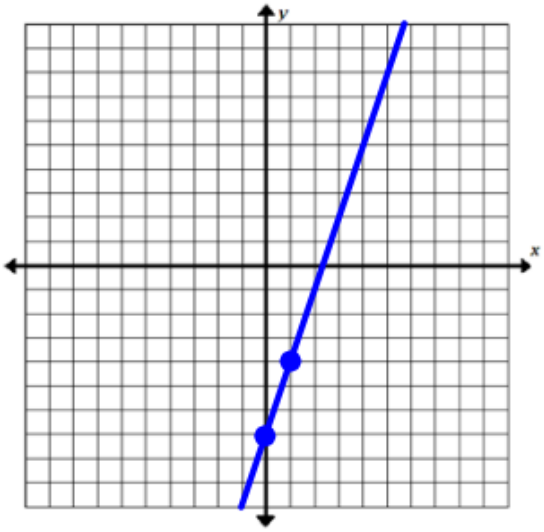
   y-intercept: 4



   b. $y = 3x - 7$

   slope: 3

   y-intercept: -7



2. Find the slope of the line through the given points.

   a. (–1, 2) (3, –1)

   $m = -\frac{3}{4}$

   b. (3, 0) (3, 5)

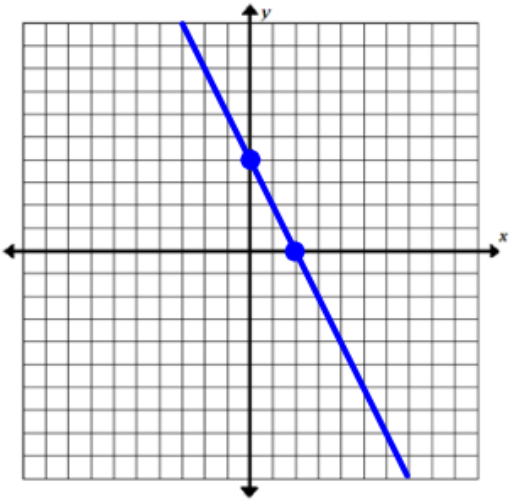
   $m = undefined$

3. Find the x-intercept and y-intercept for the equation. Then graph the equation.

   a. $8x + 4y = 16$

   x-intercept: 2

   y-intercept: 4



4. Use the equation $y = 5x - 2$ to find the slope of the line, a parallel line, and a perpendicular line.

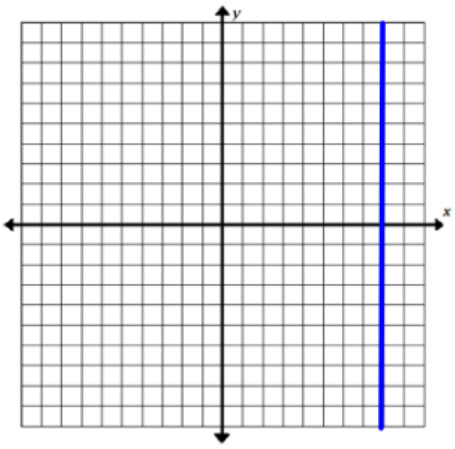
   Slope: 5

   Slope of a Parallel Line: 5

   Slope of a Perpendicular Line: $-\frac{1}{5}$

5. Graph the line.

   a. $x = 8$



   b. $y = -2$