Slope-Intercept Form Quiz

1. Identify the slope and y-intercept of this equation: $y = 2x + 3$

a) $slope = 3$; y-intercept $= 2$

b) $slope = 2$; y-intercept $= 2$

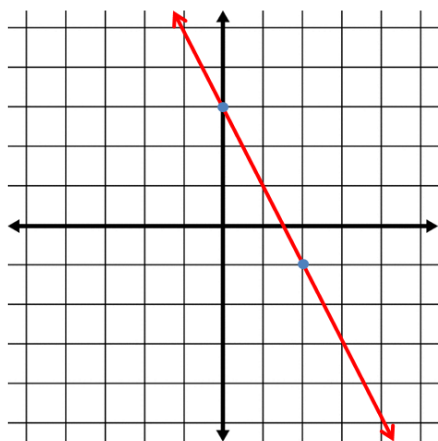c) $slope = 3$; y-intercept $= 3$

d) $slope = 2$; y-intercept $= 3$

2. The slope-intercept form is $y = mx + b$, where "m" is the y-intercept and "b" is the slope.

a) *True*

b) *False*

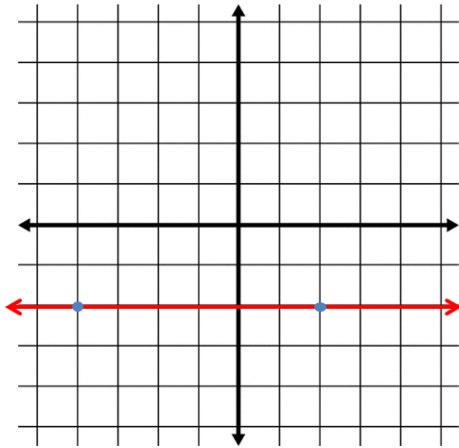3. Find the slope and y-intercept: $-\frac{1}{4}x - 12 = y$

a) $slope = 12$; y-intercept $= 4$

b) $slope = -\frac{1}{4}$; y-intercept $= -12$

c) $slope = \frac{1}{4}$; y-intercept $= 12$

d) $slope = -4$; y-intercept $= -48$

4. Identify the slope and y-intercept of the line in the graph below:

a) $slope = 2$; y-intercept $= 3$

b) $slope = -\frac{1}{2}$; y-intercept $= -3$

c) $slope = -2$; y-intercept $= 3$

d) $slope = -4$; y-intercept $= 3$

5. Identify the slope of the line in the graph below:

a) 1

b) 0

c) *undefined*

d) −1

6. For any equation where $y = mx$, the y-intercept is always equal to what value:

a) 0

b) 1

c) *undefined*

d) none of the above

7. The slope-intercept form of the linear equation makes it easier to graph because the starting point is always the y-intercept and the slope direct the steepness of the line.

a) *True*

b) *False*

8. Determine the slope and y-intercept of the line: $y = -4x$

a) *slope* $= 0$; y-intercept $= -4$

b) *slope* $= 0$; y-intercept $= 4$

c) *slope* $= 4$; y-intercept $= 0$

d) *slope* $= -4$; y-intercept $= 0$

9. Determine the slope and the y-intercept of the line graphed below:
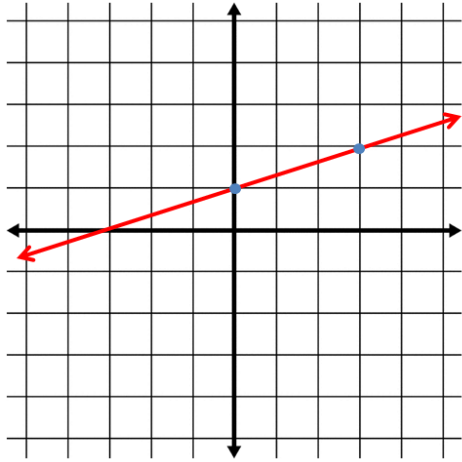
a) $slope = 1$; y-intercept $= 1$

b) $slope = \frac{1}{2}$; y-intercept $= 2$

c) $slope = \frac{1}{3}$; y-intercept $= 1$

d) $slope = 3$; y-intercept $= 1$

10.   The slope and the y-intercept of the equation: $y = 1.56x - 245$ is slope $= -245$ and y-intercept $= 1.56$.

a) *True*

b) *False*