

Name: _____

Date: _____

Topic: _____

Class: _____

Main Ideas/Questions **Notes/Examples**

Slope-Intercept Form

Linear equations are frequently written in **slope-intercept form**:

m is the _____ and b is the _____

Examples

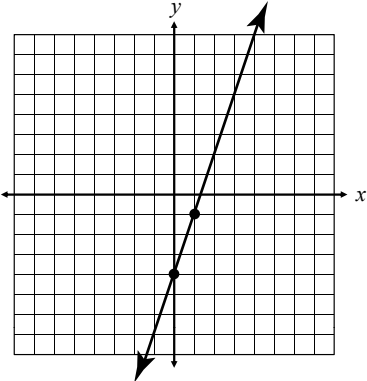
Directions: Given the slope and y-intercept of the line, write the equation in slope-intercept form.

- slope = 2; y-intercept = -1 _____
- slope = $-\frac{3}{5}$; y-intercept = 4 _____
- slope = -3; y-intercept = 2 _____
- slope = -1; y-intercept = 7 _____
- slope = $\frac{1}{4}$; y-intercept = 0 _____
- slope = $-\frac{5}{2}$; y-intercept = -3 _____

Given a Graph

Directions: Identify the slope and y-intercept of the line on the graph. Then, write the equation of the line in slope-intercept form.

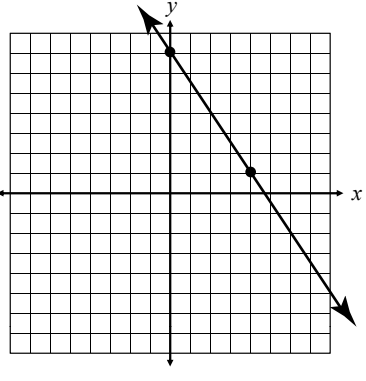
7.



$m =$ _____ $b =$ _____

Equation: _____

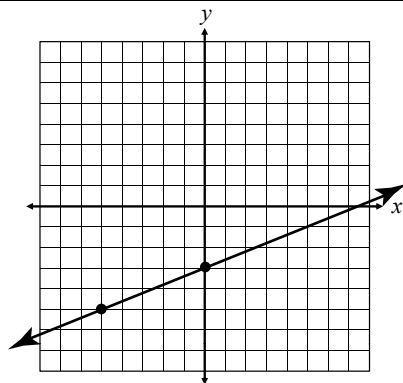
8.



$m =$ _____ $b =$ _____

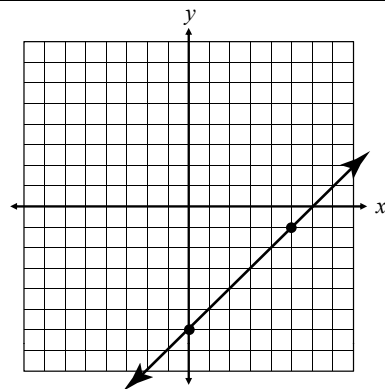
Equation: _____

9.



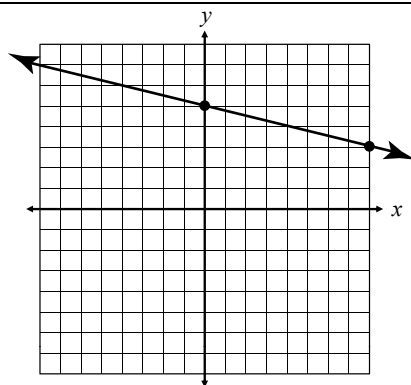
Equation: _____

10.



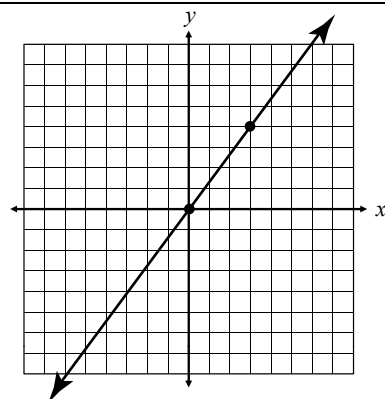
Equation: _____

11.



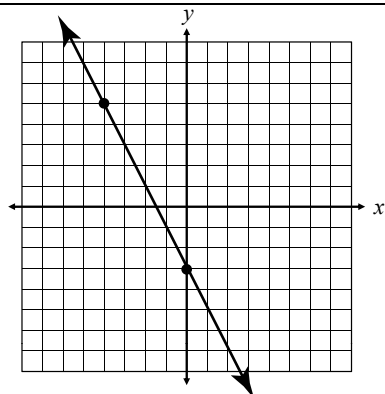
Equation: _____

12.



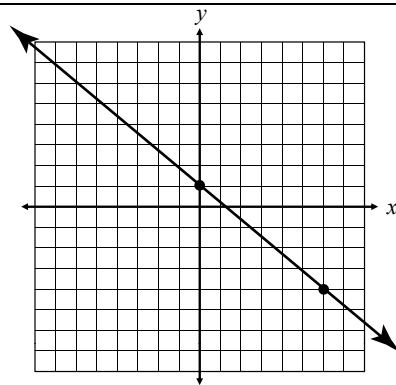
Equation: _____

13.



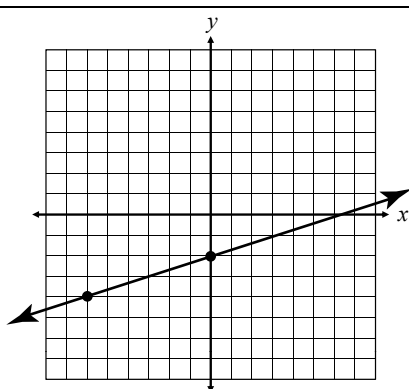
Equation: _____

14.



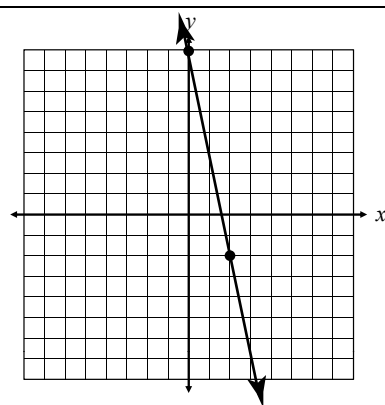
Equation: _____

15.



Equation: _____

16.



Equation: _____