

Name:

Key

Date:

Topic:

Class:

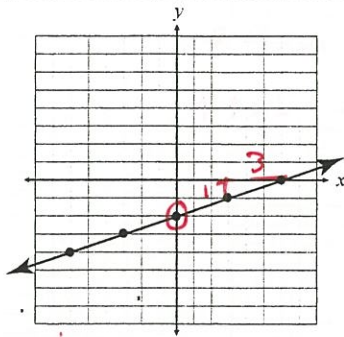
Main Ideas/Questions

Notes/Examples

Writing Linear Equations

Given a graph of a line, you can write its equation in slope-intercept form by simply identifying its slope and y-intercept.

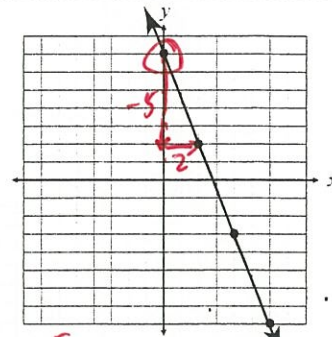
1.



$$m = \frac{1}{3} \quad b = -2$$

$$\text{Equation: } y = \frac{1}{3}x - 2$$

2.

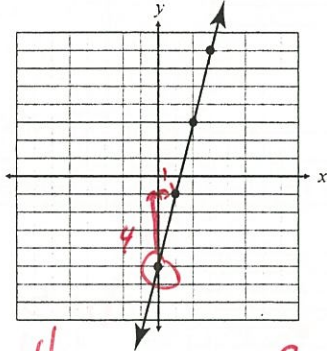


$$m = -\frac{5}{2} \quad b = 7$$

$$\text{Equation: } y = -\frac{5}{2}x + 7$$

You Try!

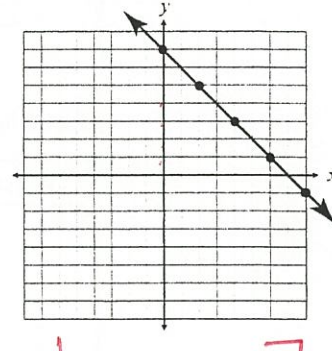
3.



$$m = 4 \quad b = -5$$

$$\text{Equation: } y = 4x - 5$$

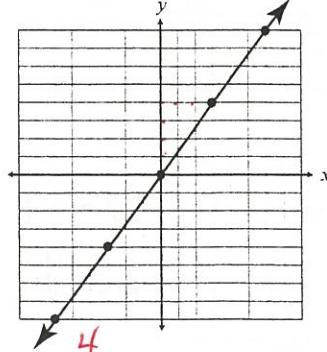
4.



$$m = -1 \quad b = 7$$

$$\text{Equation: } y = -1x + 7$$

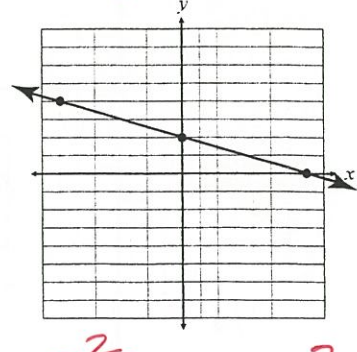
5.



$$m = \frac{4}{3} \quad b = 0$$

$$\text{Equation: } y = \frac{4}{3}x$$

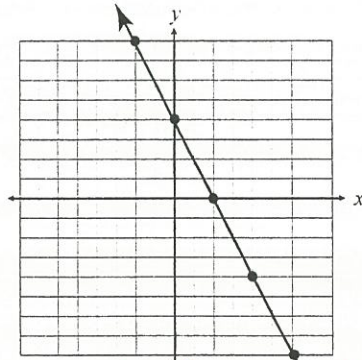
6.



$$m = -\frac{2}{7} \quad b = 2$$

$$\text{Equation: } y = -\frac{2}{7}x + 2$$

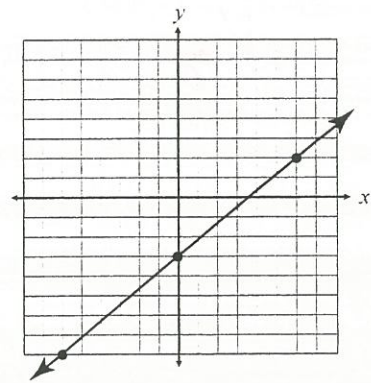
7.



$$b=4 \quad m=-2$$

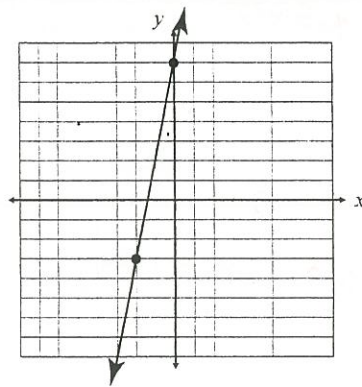
Equation: $y = -2x + 4$

8.



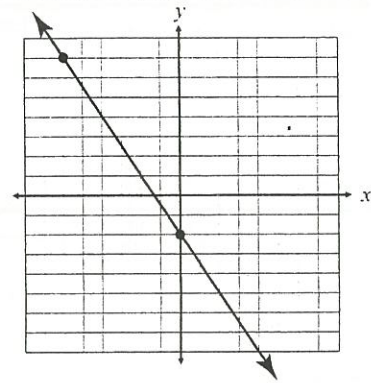
Equation: _____

9.



Equation: _____

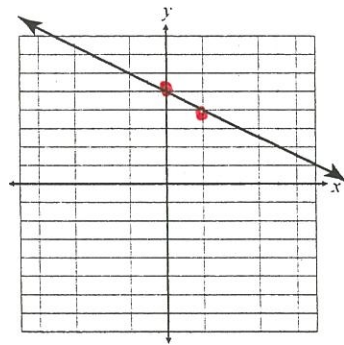
10.



Equation: _____

Choose the equation that best matches the line shown on the graph.

11.



$$b=5$$

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

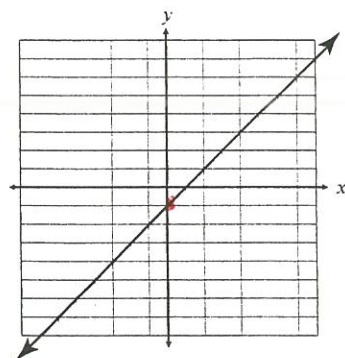
A. $y = 2x + 5$

B. $y = -2x + 5$

C. $y = \frac{1}{2}x + 5$

D. $y = -\frac{1}{2}x + 5$

12.



$$b=-1$$

$$m=1$$

A. $y = x + 1$

B. $y = x - 1$

C. $y = -x + 1$

D. $y = -x - 1$