

NAME _____

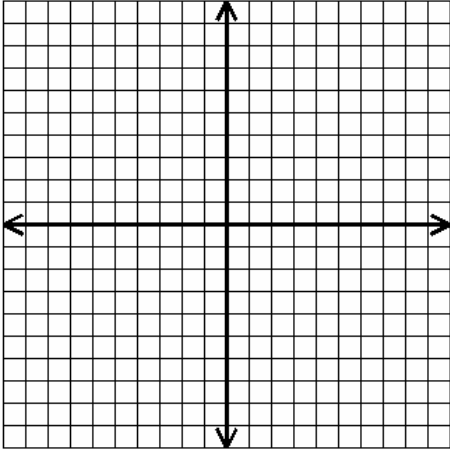
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PER. _____

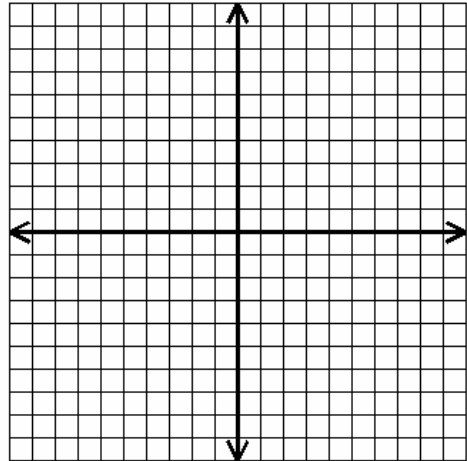
GRAPHING USING $y = mx + b$ - Day 2

Identify the slope and y-intercept of each line, then graph.

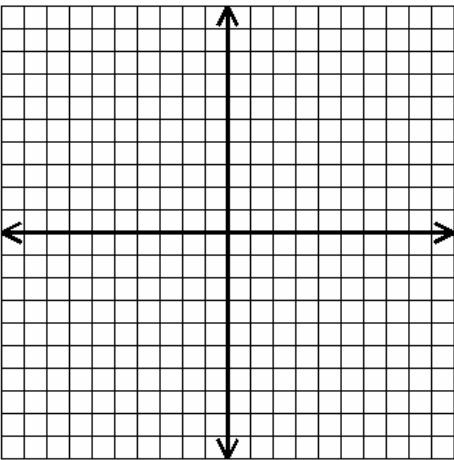
1. $y = \frac{1}{2}x + 2$ $m =$ _____; $b =$ _____



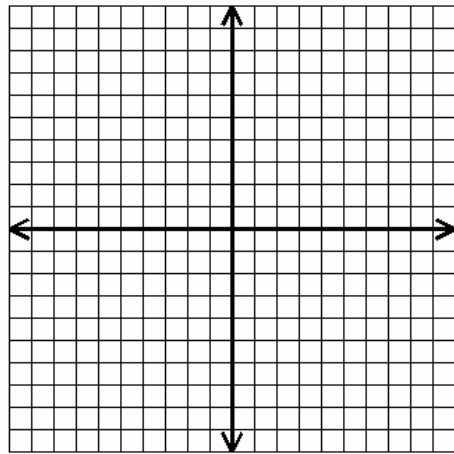
2. $y = -\frac{3}{2}x + 7$ $m =$ _____; $b =$ _____



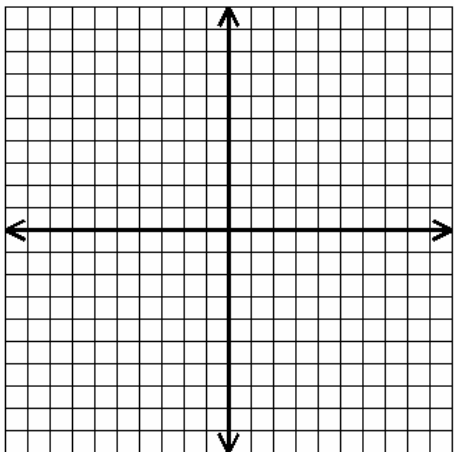
3. $y = 2x - 4$ $m =$ _____; $b =$ _____



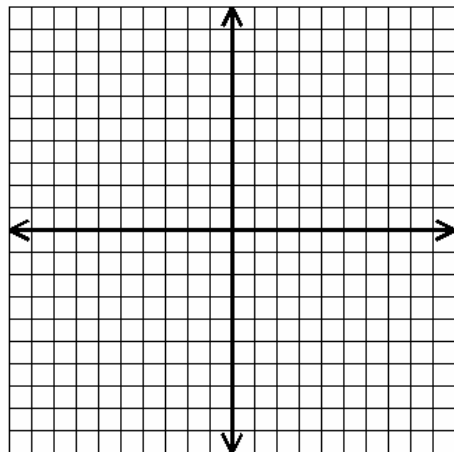
4. $y = -4x - 8$ $m =$ _____; $b =$ _____



5. $y = 3x$ $m =$ _____; $b =$ _____

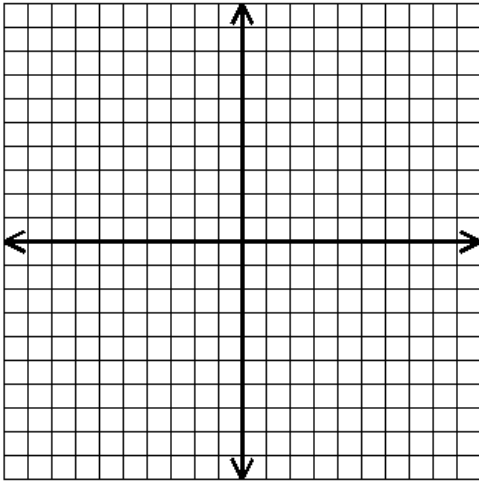


6. $y = 2.5x + 6$ $m =$ _____; $b =$ _____



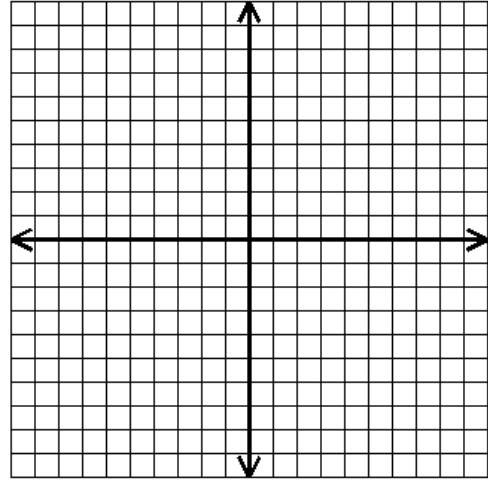
Use the information given to graph a linear function.

7. Graph the line that goes through (4, 2) and has a slope of $-\frac{1}{2}$. Then write the equation in slope-intercept form.



Equation: _____

8. Graph the line that goes through the points (-4, -3) and (8, 6). Then write the equation in slope-intercept form.



Equation: _____

9. Write the equation of a line with a slope of $-\frac{3}{4}$ and a y-intercept of (0, 7).

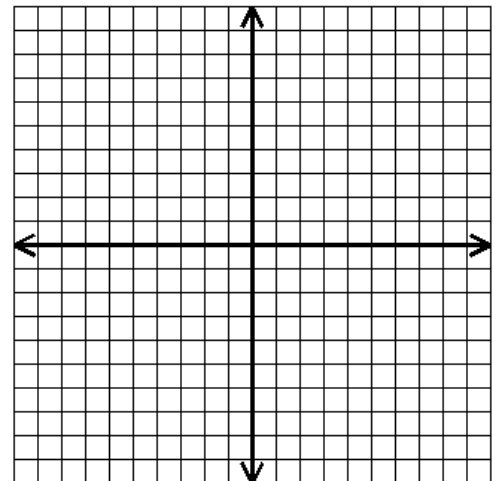
Equation: _____

10. Write the equation of a line that goes through the y-axis at -12 and has a rate of change of 5.

Equation: _____

11. Find the missing information.

Point A	(-5, 0)
Slope	1
y-intercept	
Equation of the line	
Name 2 other points on the line	



12. Which of the following equations represents the linear parent function?

F. $y = x$

H. $y = -x^2$

G. $y = -x$

J. $y = x^2$

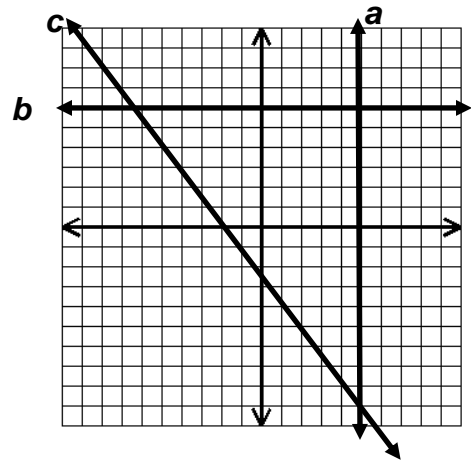
Answer each of the following.

13. Find the slope of each line shown.

a: _____

b: _____

c: _____



14. Find the slope of the line that contains the points (4, -2) and (8, 6).

15. If (5, a) and (4, 3) are two points on the graph of a line and the slope is -2, find the value of a.

16. Which linear function could be used to generate this table of values?

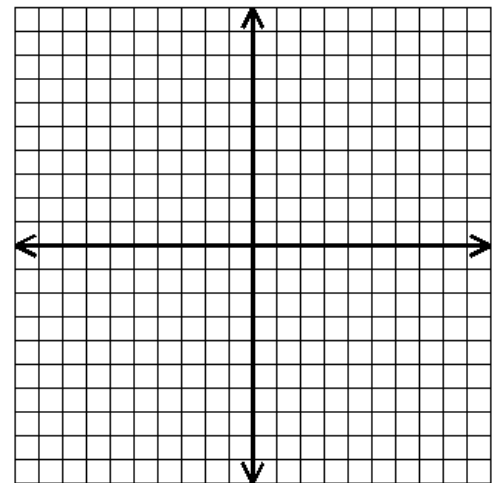
x	y
-2	-7
-1	-2
0	3
1	8

A. $y = -5x + 3$

C. $y = 5x + 3$

B. $y = 3x + 3$

D. $y = -2x - 7$



17. Morgan is making a graph of the function $f(x) = x^2 - 1$. Which value is not in the range of $f(x)$ if the replacement set for $x = \{0, 1, -2\}$?

A. 3

C. -5

B. 0

D. -1