

Practice Test

Chapter 8 Test Study Guide

Mr. Lloyd & Ms. Catullo

Name _____ Date _____ Period _____

Key

Directions: Write the correct letter in the space provided.

_____ 1. This table shows a relation between x and y. Which equation shows the same relation?

X	-1	0	1	2	3
Y	-4	-1	2	5	8

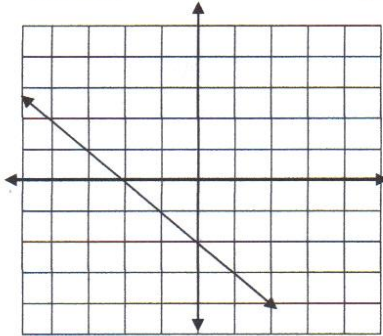
$y = 3x - 1$

- A. $y = -3x$
- B. $y = -3x + 1$
- C. $y = 3x - 1$
- D. $y = -x + 3$

_____ 2. For which equation is (2, 1) a solution?

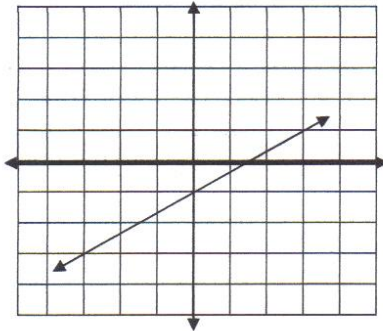
- A. $y = 3x + 1$
- B. $y = -x + 6$
- C. $y = 2x + 2$
- D. $y = 2x - 3$

_____ 3. Which is the linear equation for this graph?



- A. $y = -2x + 1$
- B. $y = 2x - 1$
- C. $y = -x - 2$
- D. $y = x - 2$

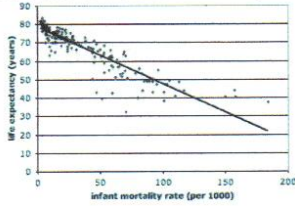
Look carefully at the following graphed line and then answer the following three questions.



- 4. What is the slope of the line? $\frac{2}{3}$
- 5. What is the y-intercept of the line? -1
- 6. What is the equation of the line?

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

7. True or False? The slope of the line in the graph below has a positive slope. Circle your answer.



False

8. The slope between the points (3, -2) and (2, 0) is $\frac{0-2}{2-3} = \frac{2}{-1}$

A. 2

B. $\frac{1}{2}$

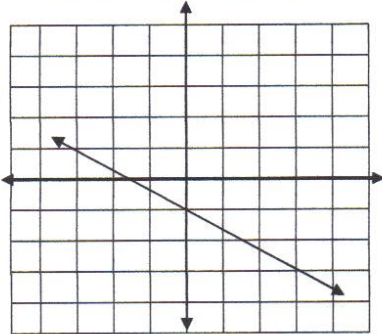
C. -2

D. undefined

9. Find the slope of the line through (-1, 4) and (3, 6).

$$\frac{6-4}{3-(-1)} = \frac{2}{4} = \frac{1}{2}$$

10. Which set of ordered pairs all lie on this line?



A. (0, 2), (3, 0), (-3, 4)

B. (0, -1), (3, 3), (-3, -1)

C. (0, -2), (-3, 1), (3, -4)

D. (0, -1), (-3, 1), (3, -3)

11. Complete the following table. Then write an equation to show the relationship in the table.

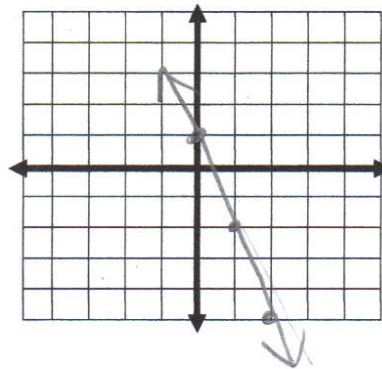
x	Y
-3	15
-2	10
-1	5
0	0
1	-5
2	-10
3	-15

+1 (-3 15) -5

Equation: $y = -5x$

12. Graph $y = -x + 1$ using a table of values. Show all work.

x	$y = -3x + 1$	y
0		1
1		-2
2		-5



13. Given the function $y = 3x + 2$, which set of numbers completes the table?

x	Y
2	8
3	11
4	14

A. [8, 10, 12]

B. [4, 7, 10]

C. [8, 11, 14]

Find the slope and the y-intercept of the line with the given equation.

14. $y = \frac{2}{3}x + 2$

slope = $\frac{2}{3}$

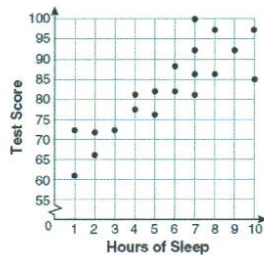
y-intercept = 2

15. $y = -5x$

slope = -5

y-intercept = 0

16. Which term best describes the relationship between the variables in the scatter plot?



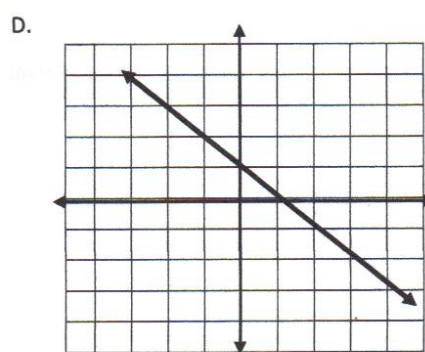
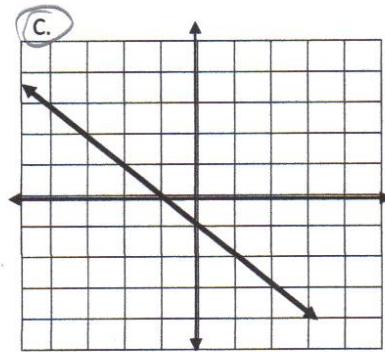
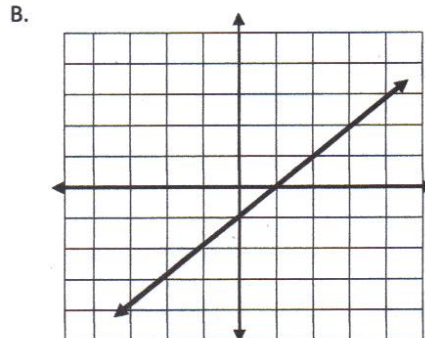
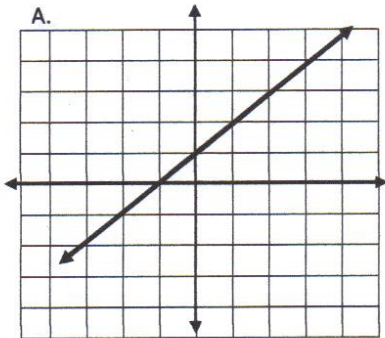
A. negative

B. positive

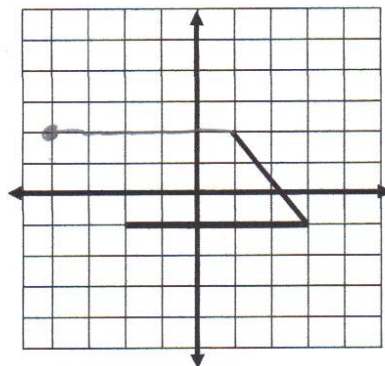
C. zero

D. undefined

_____ 17. Which graph shows the relationship $y = -x - 1$?



_____ 18. Complete the drawing of the parallelogram. Which of the following is the location of the missing vertex of a parallelogram?



A. (-4, -2)

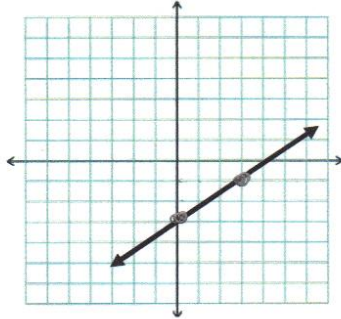
B. (1, 2)

C. (3, -3)

D. (-4, 2)

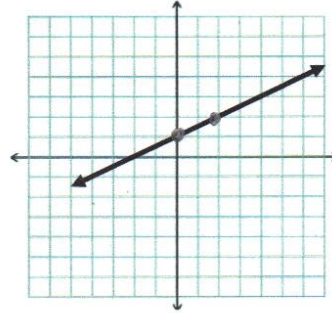
Write the equation of the following lines in $y = mx + b$ form.

19.



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

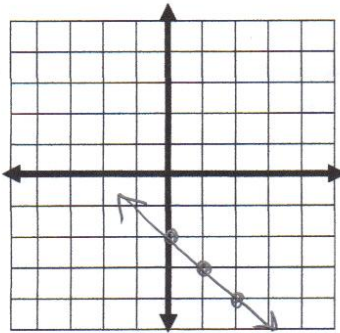
20.



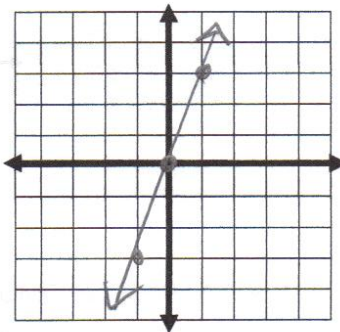
Equation: $y = \frac{1}{2}x + 1$

Graph each (you may make a table of values or use $y = mx + b$).

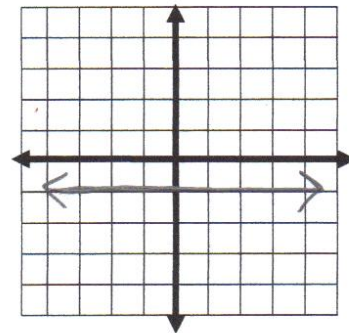
21. $y = -x - 2$



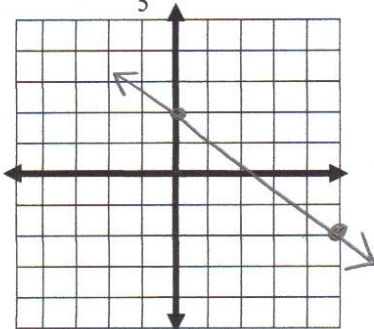
22. $y = 3x$



23. $y = -1$



25. $y = -\frac{4}{5}x + 2$



26. $y = \frac{1}{2}x - 1$

