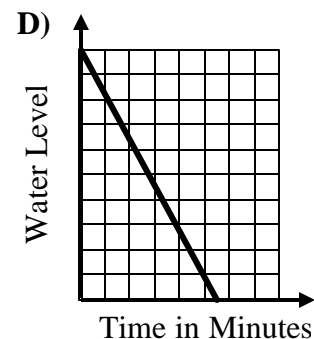
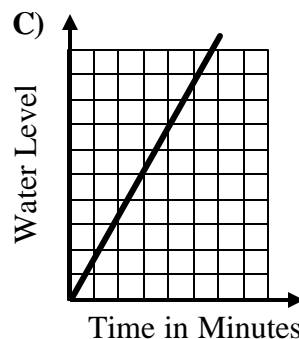
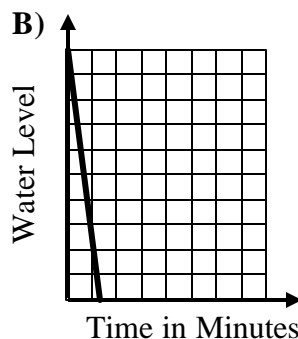
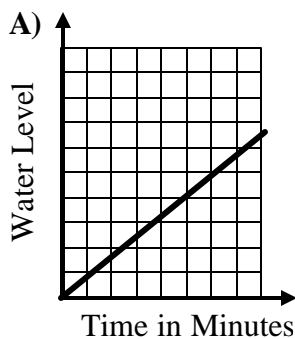


Analyzing Equations Through Slope & Y-int Mixed Review:

1. Which of the following represents the inequality $6x + 2y > 12$ solved for y ?

- A) $y > 3x + 6$
- B) $y > -3x + 6$
- C) $y < 3x + 6$
- D) $y < -3x + 6$

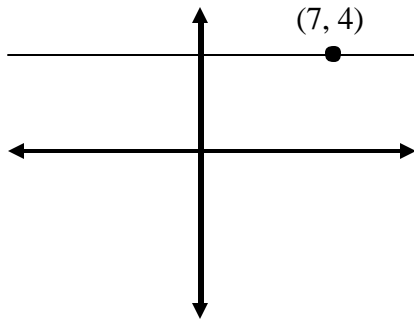
2. A water bottle has 10 liters of water in it. It is being emptied at a constant rate of 2 liters per minute. Which of the following graphs represents the relationship between the water level (y) and the time in minutes (x)? Each grid line represents one unit.



3. Trent wants to buy DVD's and CD's to make his room more fun. DVD's cost \$15 and CD's cost \$10. Trent has \$150, so he must spend less than or equal to that amount. Which of the following inequalities represents the possible number of DVD's (x) and CD's (y) that he can buy?

- A) $15x + 10y \geq 150$
- B) $15x + 10y \leq 150$
- D) $15x - 10y \geq 150$
- D) $15x - 10y \leq 150$

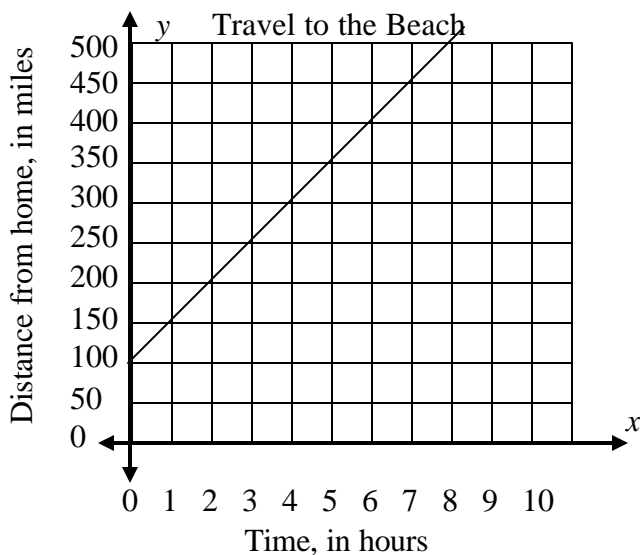
4. The line shown below is a horizontal line passing through the point (5, 4).



Which of the following represents the equation of the graph?

- A) $y = 7$
- B) $y = 4$
- E) $x = 7$
- D) $x = 4$

5. The graph below shows the distance a car traveled over a 10-hour trip



Which of the following functions represents the relationship between hours and distance traveled?

- a) $f(x) = 50x + 100$
- b) $f(x) = 100x + 50$
- c) $f(x) = 150x + 100$
- d) $f(x) = 50x + 500$

6. Which of the equations below represents a relationship where y varies directly with x ?

- a. $y = 3x$
- b. $x = 5y - 1$
- c. $y = 11x$
- d. $y = 12 - 2x$

7. Look at the data in the table below.

x	-3	-2	0	5	6	4
y	-6	-4	-2	0	1	5

Which of the following describes the slope of a line of fit representing this data?

- A) The slope is negative.
- B) The slope is zero.
- C) The slope is positive.
- D) The slope is undefined.

8. The table below represents the cost of renting a movie for x amount of days. Chose which equation matches the table.

Days Rented, x	0	1	2	3	4
Cost to Rent, y	12	15	18	21	24

- a) $y = 0x + 12$
- b) $y = 12x + 0$
- c) $y = 3x + 0$
- d) $y = 3x + 12$

9. What is the y -intercept of the line that passes through the points (5, 2) and (1, 5)?

Bubble in your answer:

1				
	7	7	7	
	0	0	0	0
	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

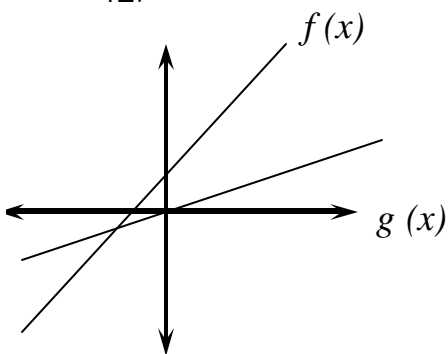
10. Which of the following words describes the rate of change in a word problem?

- a. The y-intercept
 - b. The line is straight
 - c. The slope
 - d. The x-intercept
-

11. Sam runs 5 miles before school everyday to train for the big track meet. After school, he also runs at rate of 2 miles per hour. Which function below represents that total miles that Sam runs?

- a. $f(x) = 5x + 2$
 - b. $f(x) = 5x - 2$
 - c. $f(x) = 2x - 5$
 - d. $f(x) = 2x + 5$
-

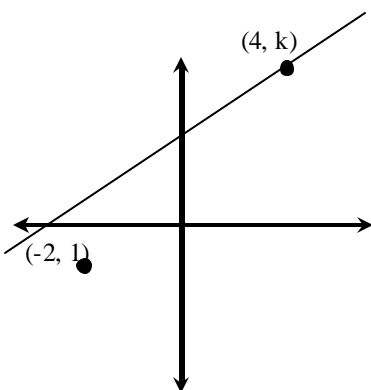
12.



If $f(x) = 3x + 2$ which of the following could be a possible equation for $g(x)$?

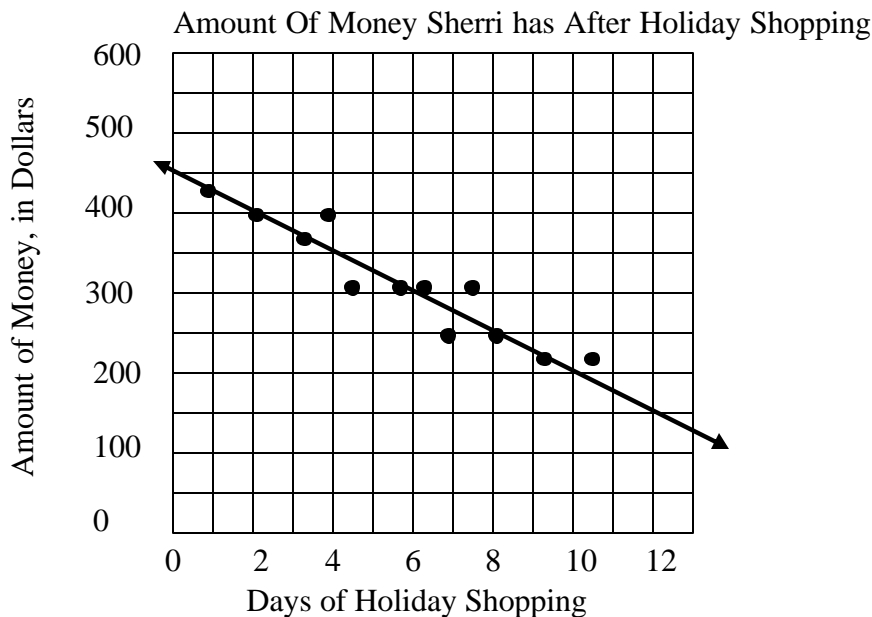
- a. $g(x) = \frac{1}{3}x - 2$
 - b. $g(x) = 5x + 0$
 - c. $g(x) = \frac{1}{3}x + 0$
 - d. $g(x) = 2x - 1$
-

13. Look at the points listed in the graph below. Find the value of k when the slope is .66667.



- A) $k = 1$
- B) $k = 3$
- C) $k = 5$
- D) $k = 7$

14. The scatter plot below shows the money Sherri has after x days of holiday shopping.



- According to the line of fit, when the number of days increases by 2, how much does Sherri's money decrease?

- A) 50
- B) 100
- C) 450
- D) 600

-
- Using the line of fit above, predict which day Sherri will have \$150 left

- A) 9
- B) 10
- C) 11
- D) 12

15. Which of the equations below represents a relationship where y varies directly with x ?

a. $y = 5 - 2x$

b. $x = 4y - 2$

c. $y = 2 + x$

d. $y = 12x$