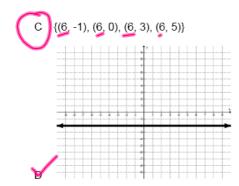


practice

1. Which of the following does not represent a function?

\bigvee	х	-2	0	4	10
	у	-1	3	11	23

$$y = x^2 - 3$$



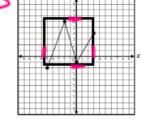
- 2. If $f(x) = x^2 + 2x + 3$, what is the value of f(x)when x = 6?
 - 27
 - 42
 - В
 - С 51



3. What is the value of $\frac{6x-3y}{x}$, when x=6 and

- B C D
- If (-4.5, y) is a solution to the equation 2x - 5y = 10, what is the value of y

What is the domain of the function shown?



6. The table below shows a relationship between the total cost of purchasing books through a book club and the number of books purchased.

Total Cost in Terms of Books Purchased

Books Purchased, x	0	1	2
Cost v	\$10	\$25	\$40

What is the functions' independent variable?

\$10 \$15

Cost of the club

Number of books purchased

A swordfish travels through the water at a speed of 40 miles per hour. The relationship between the distance traveled, d, and the time traveled, t, is determined by the function d = 400 Which of the following statements is true?

The distance a swordfish travels is

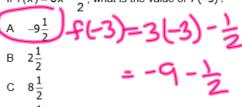
determined by the size of the swordfish. The amount of time a swordfish travels is determined by the size of the swordfish.

- The amount of time a swordfish travels is determined by the distance the swordfish travels.
- The distance a swordfish travels is determined by the amount of time the swordfish travels.
- Which of the following represents the parent function y - 2x = 7?

A
$$y = 2x$$

B $y = x^2 + 7$
C $y = x$
D $y = \sqrt{x}$

If $f(x) = 3x - \frac{1}{2}$, what is the value of f(-3)?



WPIchie Gauge Calcions of Lines

Standard Form: Ax + By = C A,B, Cave whole #5 Cnotnegative.

Point - Slope: $y - y_1 = m(x - x_1)$

To write an equation given 2 points:

CALCULATOR

ex. Write equation of the line passing through the points (4,-3) and (-1,2)

L1-7X'S, L2-74'S

(Slope Intercept: y = mx + b (Slope Cylope Cy-int

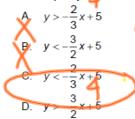
Parallel - SAME Slope 41000

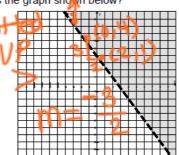
Perpendicular - numbers Phones

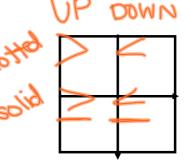
4: LinRea 7=-X+1)

y=ax+b a=-1 (\$\frac{1}{2}\frac{1}

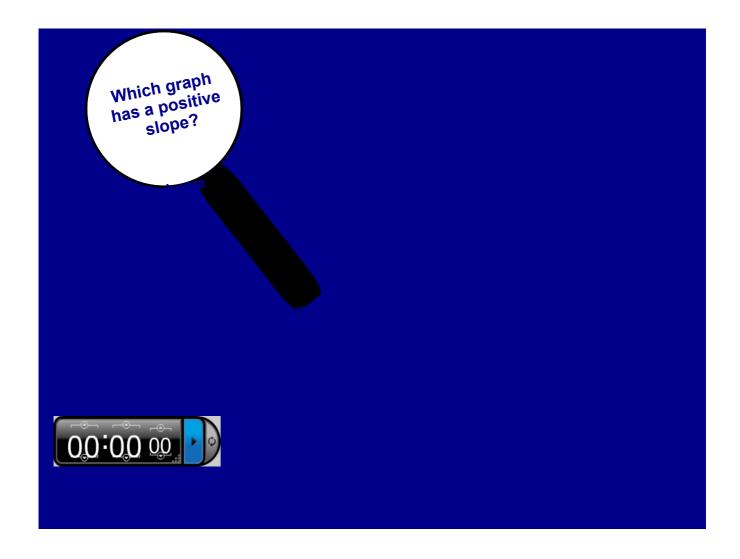
- 1. Which of the following is not a correct description of the graph of the equation $2x + \sqrt{2}$?
- A. The graph of the equation contains the point (-2, -3), and when the value of x increases by 1 unit, the value of y decreases by 2 units.
- B. The graph of the equation contains the points (-1, -5), (2, -11), and (4, -15).
- The graph of the equation is a line that passes through the point (0, -7) with a slope of -2.
- D. The graph of the equation contains the points (0, -7), (1, -9), and (3, -1).
- 2. Which inequality best describes the graph shown below?





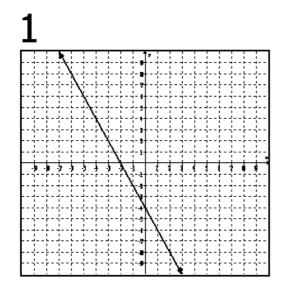


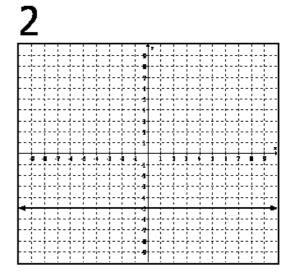
- 3. What is the equation in standard form of the line that passes through the point (1, 24) and has a slope of -0.6?
 - **F** 3x + 5y = 125
 - **G** 3x + 5y = 77
 - **H** 3x + 5y = 123
 - **J** 3x + 5y = 115

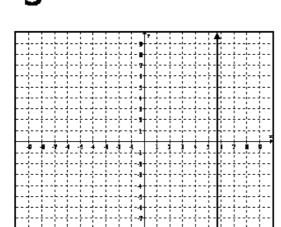


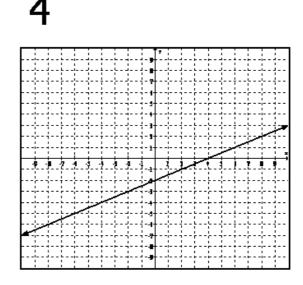
Algebra I - Unit 11: End of Course Review - Writing Equations of Lines

Which Graph Teacher Sheet-Writing Equations of Lines











Practice

1. Which equation describes the line that passes through the point (4, 7) and is parallel to the line represented by the equation -3x + y = 4?

A
$$y = -3x + 19$$

B
$$y = 3x - 5$$

C
$$y = \frac{1}{3}x + 5\frac{2}{3}$$

D
$$y = -\frac{1}{3}x + 8\frac{1}{3}$$

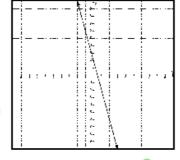
- 2. Write a function in slope-intercept form that represents a line that contains the point (2, 12) and has a slope of -3?
- 3. Which inequality best represents the graph shown below?

A
$$x + 4y \ge 8$$

B
$$4x + y \ge 2$$

$$0 \quad 4x + y \le 2$$

$$D \quad X + 4y \le 8$$



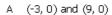
4. Which function includes the data set 🗘 💦 🤜 (-2,7),(4.4),(6,3)?

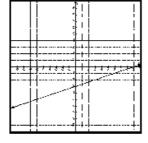
A
$$y = -\frac{1}{2}x + 6$$
 B $y = -2x + 3$

$$C y = \frac{1}{2}x + 8 D$$

y = 2x - 4

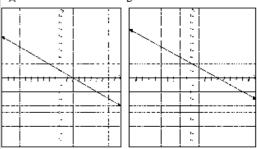
5. What are the intercepts of the linear function shown below?





Solve for 4

6. Which of the graphs below best represent the inequality $X + 2y \le 4$?



C

7. The table below shows various values for χ and y. Which equation best describes the relationship between xand y? Li Mee

$$A y = -3x + 5$$

D.	1.7	c	-

$$B y = -5x - 7$$

C
$$y = -x + 17$$

D
$$y = 3x + 41$$

_ ^	,
-6	23
-2	3
7	-42
11	-62

8. Which function includes the following set of ordered pairs (1,3),(2,0),(3,-3) ? Linked

$$C = V = -3v + 6$$

$$B \qquad y = \frac{-x}{2}$$

B
$$y = \frac{-x}{3}$$
 D $y = -\frac{x}{3} - 4$