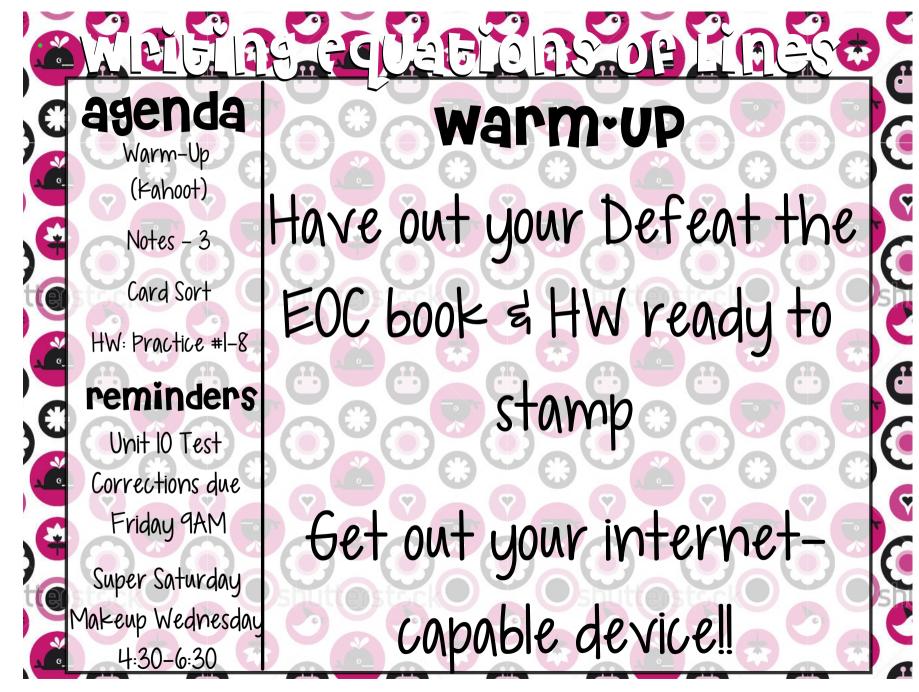
3 Writing Equations.notebook



A painter charges \$35 per hour for labor plus \$40 for a ladder rental when he paints a house. The customer provides the paint. The total charge to paint a customer's house was \$950. How many hours did the painter spend painting this house?

**F**  $12\frac{2}{3}$  h

35h +40-95D

- **G** 28 h
- **H** 23 h
- J Not here

The set of ordered pairs below represents some points on the graph of function f.

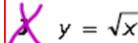
$$\{(3, 11), (-1, 3), (5, 15), (-4, -3), (-7, -9)\}$$

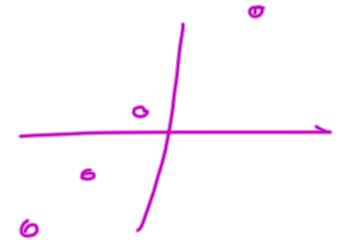
What is the parent function of f?

$$\mathbf{F} \quad y = x$$

$$y = 2^x$$

$$\mathbf{H} \quad \mathbf{v} = \mathbf{x}^2$$





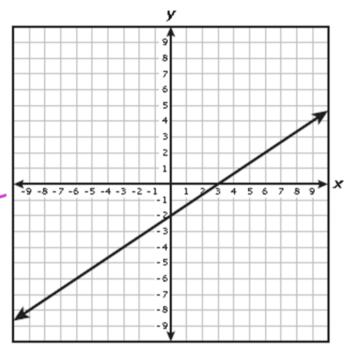
A family will travel 350 miles from their house in order to reach Dallas, TX. Which inequality can be used to find all possible values of t, the time it will take this family to reach Dallas in hours, if they travel at an average speed of at least r miles per hour?

$$G \quad t > \frac{r}{350}$$

**H** 
$$t \leq \frac{350}{f}$$

$$\frac{tr = 350}{r}$$

A graph is shown below.



Which of the following equations are represented by the graph?

$$X = -\frac{3}{2}x - 2$$

$$M. y = (x - 2)(x - 3)$$

IV.  $y = -\frac{3}{2}x - 2$ II. 2x - 3y = 6IV. y = (x - 2)(x - 3)IV.  $y - 2 = \frac{2}{3}(x - 6)$ 

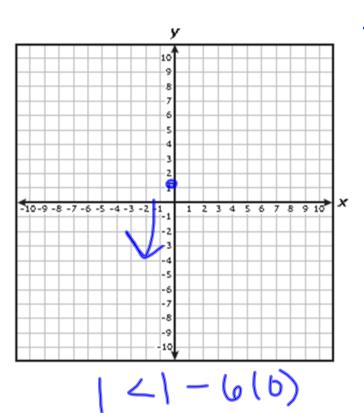
A <u>II</u> and IV

📕 I and III

 $\boldsymbol{c}$   $\underline{\boldsymbol{II}}$  and  $\underline{\boldsymbol{III}}$ 

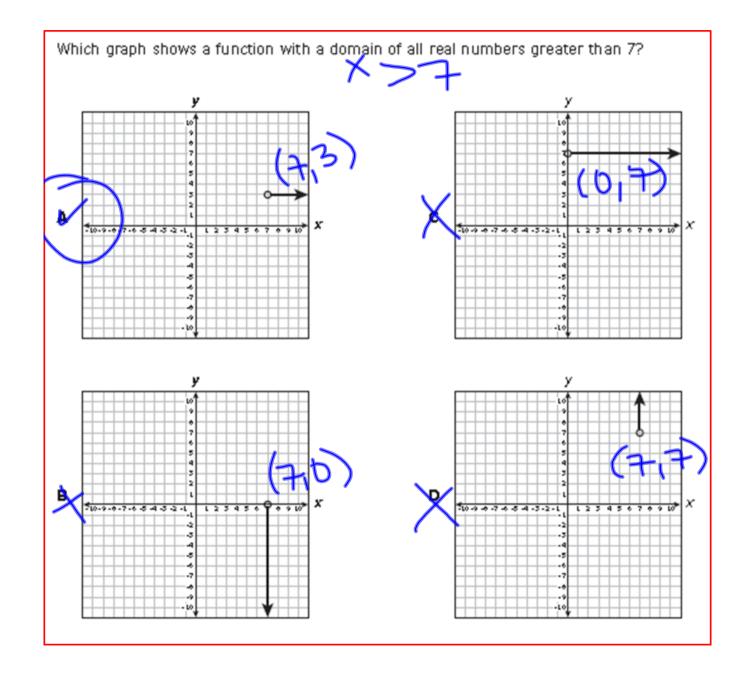
I and IV

Which coordinate pair is in the solution set for y < 1 - 6x?



- **A** (1, 0)

- B (1, -1)
- **(**-1, 1)



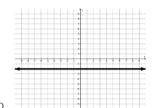
## practice

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

Α	X	-2	0	4	10
	у	-1	3	11	23

B  $y = x^2 - 3$ 

C {(6, -1), (6, 0), (6, 3), (6, 5)}

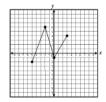


- 2. If  $f(x) = x^2 + 2x + 3$ , what is the value of f(x)when x = 6?
  - A 27 B 42
  - C 51
  - D 60
- 3. What is the value of  $\frac{6x-3y}{xy}$ , when x=6 and

- A -2 B -1
- C 2
- D 3
- If (-4.5, y) is a solution to the equation



- What is the domain of the function shown?
- $\tilde{A}$   $-2 \le x \le 6$
- B  $-5 \le x \le 3$
- C  $-2 \le y \le 6$
- D  $-5 \le y \le 3$



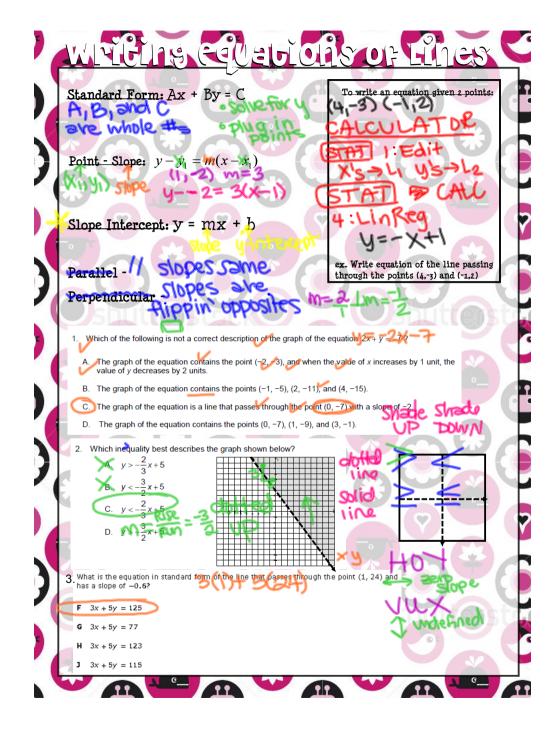
6. The table below shows a relationship between the total cost of purchasing books through a book club and the number of books

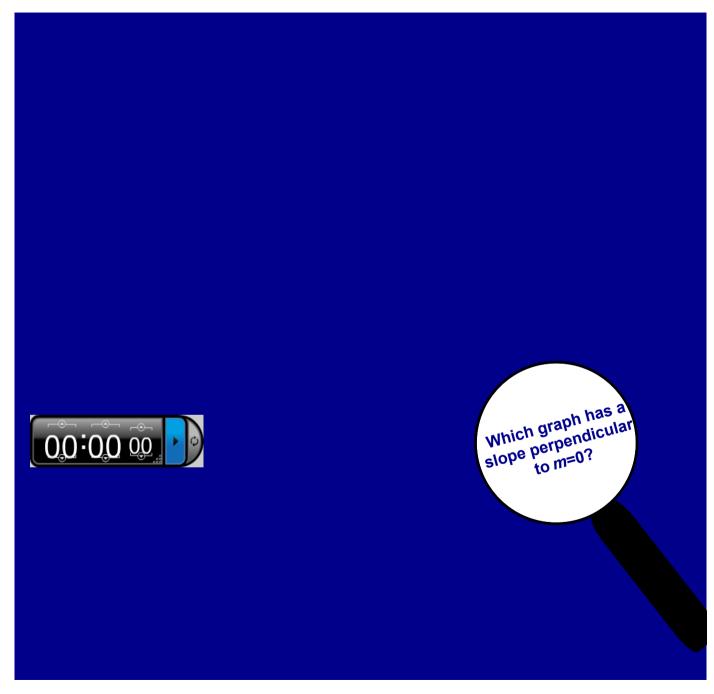
Total Cost in Terms of Books Purchased

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

What is the functions' independent variable?

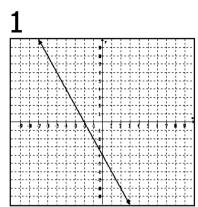
- B \$15
- C Cost of the club
- D Number of books purchased
- 7. A swordfish travels through the water at a speed of 40 miles per hour. The relationship between the distance traveled, d, and the time traveled, t, is determined by the function d = 40t. Which of the following statements is true?
  - A The distance a swordfish travels is determined by the size of the swordfish.
  - B The amount of time a swordfish travels is determined by the size of the swordfish.
  - C The amount of time a swordfish travels is determined by the distance the swordfish
  - D The distance a swordfish travels is determined by the amount of time the swordfish travels.
- 8. Which of the following represents the parent function y - 2x = 7?
  - A y = 2x
  - B  $y = x^2 + 7$
  - $C \quad y = x$
  - D  $y = \sqrt{x}$
- If  $f(x) = 3x \frac{1}{2}$ , what is the value of f(-3)?

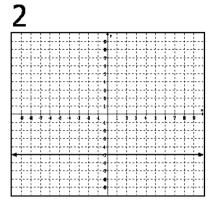




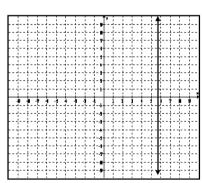
Algebra I - Unit 11: End of Course Review - Writing Equations of Lines

Which Graph Teacher Sheet-Writing Equations of Lines

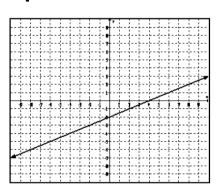




3



4



3 Writing Equations.notebook April 29, 2014



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

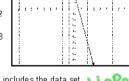
- 2. Write a function in slope-intercept form that represents a line that contains the point (2, 12) and has a slope of -3?
- 3. Which inequality best represents the graph shown below?

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

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

$$C - 4x + y \le 2$$

D 
$$x + 4y \le 8$$



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

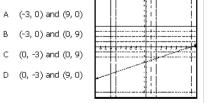
$$A \qquad y = -\frac{1}{2}x$$

$$y = -2x + 3$$

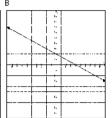
$$C y = \frac{1}{2}x +$$

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  $X + 2y \le 4$ ?



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7. The table below shows various values for  $\chi$  and y. Which equation best describes the relationship between xand y? 📙 🎧 🗬

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

$$y = -5x - 7$$

$$Y = -x + 17$$

$$D y = 3x + 41$$

-2	3
7	-42
11	-62

23

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

$$\Delta V = -3$$

$$C \quad Y = -3x + 6$$

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

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

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April 29, 2014