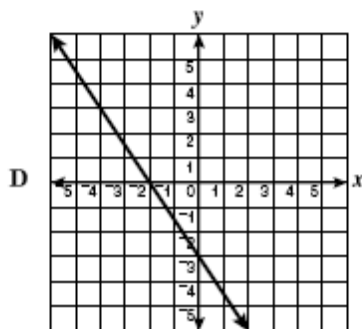
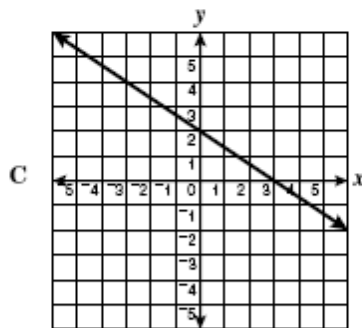
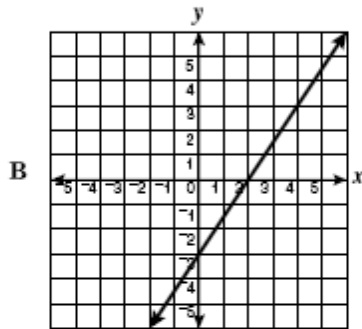
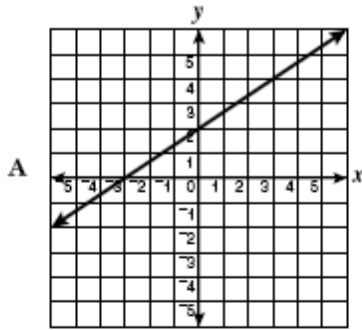
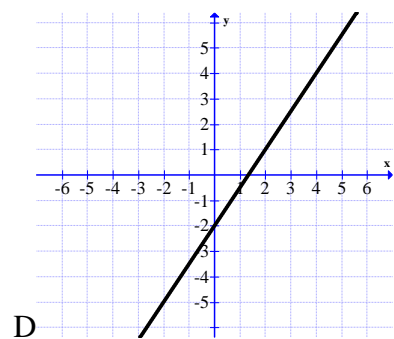
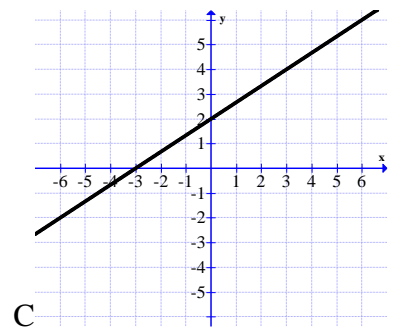
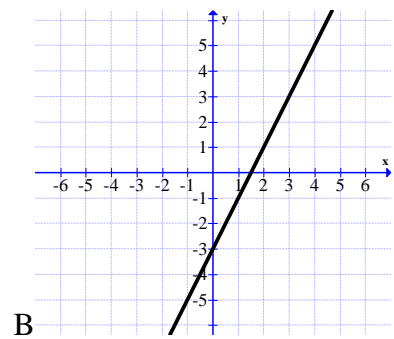
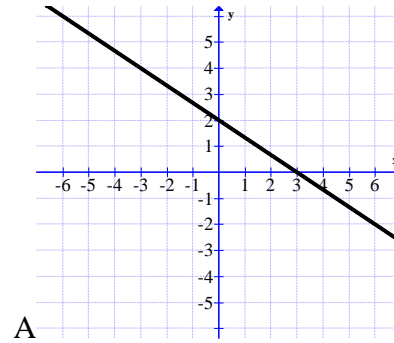
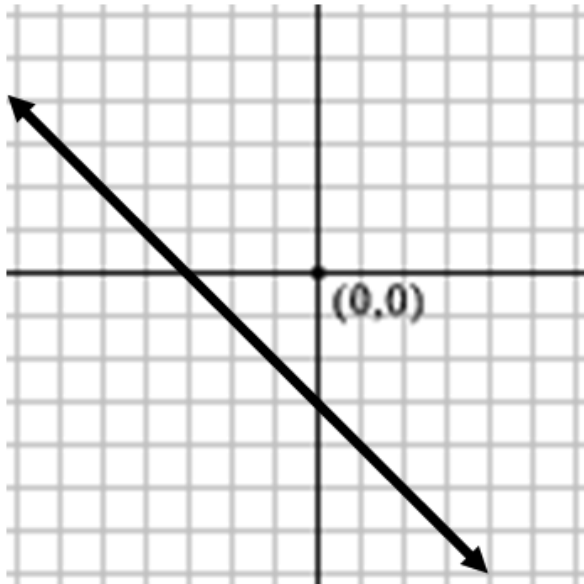


1. Which line has  $y$ -intercept 2 and  $x$ -intercept -3?



2. Which is the graph of a line that appears to have a slope of 2 and  $y$ -intercept -3?

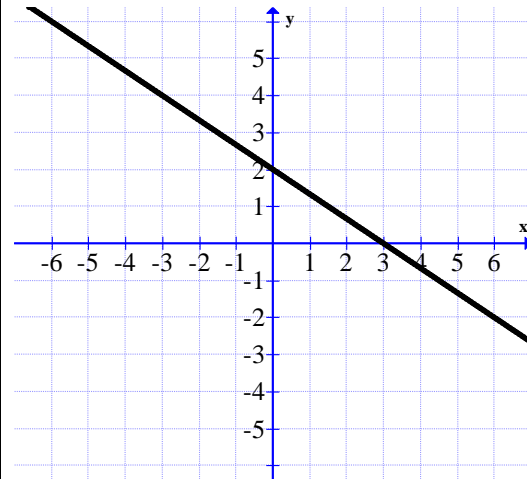




3.

Using the graph above, write an equation in slope intercept form

4. The graph of  $y = -\frac{2}{3}x + 2$  is shown.



If the line in the graph is shifted up 3 units, which is the equation of the new line?

- A  $y = -\frac{2}{3}x + 3$
- B  $y = \frac{2}{3}x + 5$
- C  $y = -\frac{2}{3}x + 5$
- D  $y = \frac{2}{3}x + 3$

5. Which is a zero of the function  $f(x) = x^2 + 4x - 5$  ?

- A 5
- B -1
- C 4
- D -5

6. What is the slope of the line that contains (4, -2) and (3, 3)?

7. Which is an equation for the line that contains the points (-2, 4) and (2, 0)

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

8. A line has a slope of -2 and contains the point (1, -3). Which is an equation of this line?

- A  $y = 2x - 5$
- B  $y = -2x - 3$
- C  $y = -2x - 1$
- D  $y = -x$

9. What is the slope of the line that contains points (3, 4) and (3, -5)?

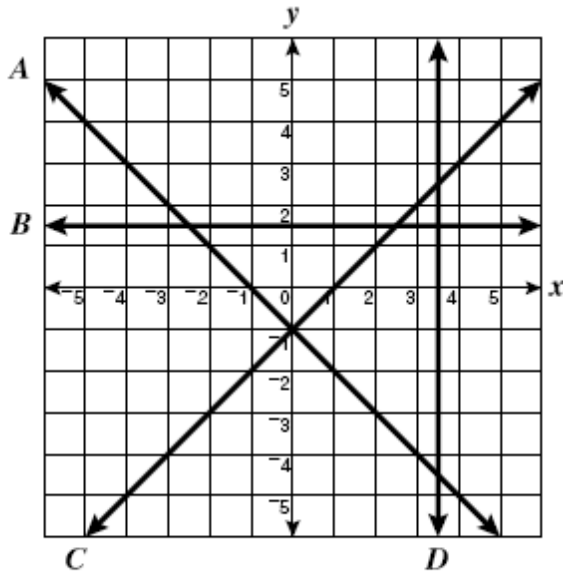
- A 0
- B Undefined
- C  $\frac{-1}{5}$
- D -5

10. What are the  $x$ -intercepts of the graph of the following equation?

$$y = x^2 + 6x + 5$$

- A -1 and 1
- B -2 and 4
- C -5 and -1
- D -3 and -4

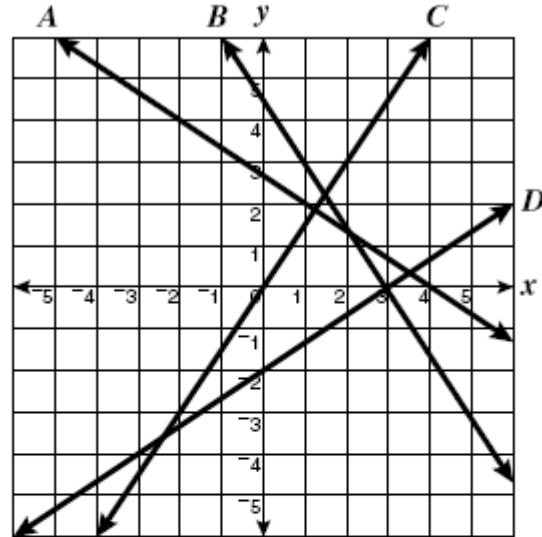
11.



Which line on the graph has an undefined slope?

- A A
- B B
- C C
- D D

12.



Which line on the grid appears to have slope  $-\frac{2}{3}$ ?

- F A
- G B
- H C
- J D

13. What is the  $y$ -intercept of

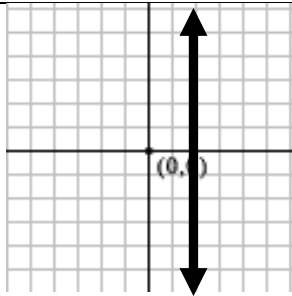
$$6x + 9y = 18$$

- A -6
- B  $\frac{-2}{3}$
- C 2
- D 3

14. Which equation is the slope-intercept form of  $-x + 4y = 12$ ?

- A  $4y = 12 + x$
- B  $x = 4y - 12$
- C  $y = \frac{-1}{4}x + 3$
- D  $y = \frac{1}{4}x + 3$

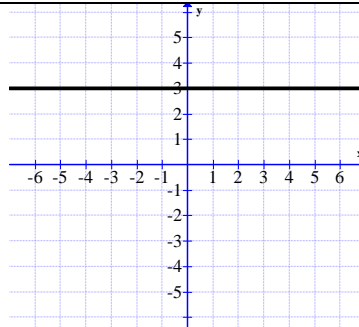
15.



Which equation best represents the line shown on the grid?

- A  $y = x - 2$
- B  $y = 2x$
- C  $y = 2$
- D  $x = 2$

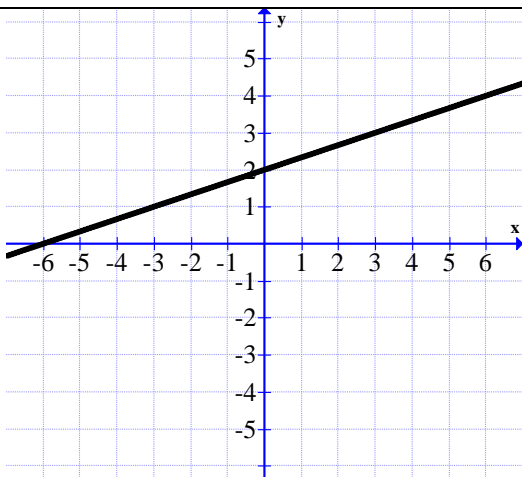
16.



Which is *most* likely the equation of the line shown on the graph above?

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

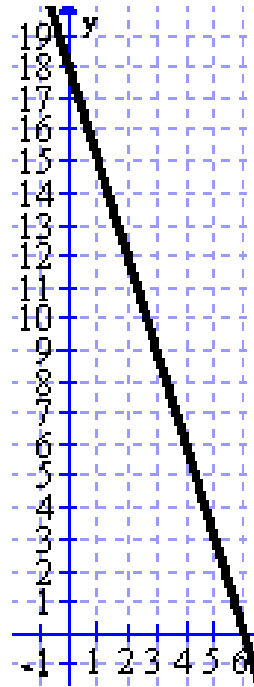
17.



Which best represents the equation of the line shown?

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

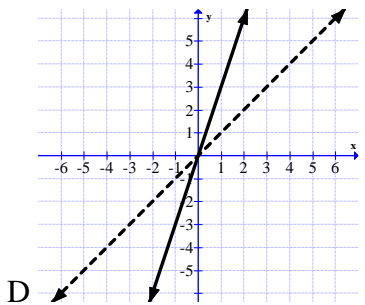
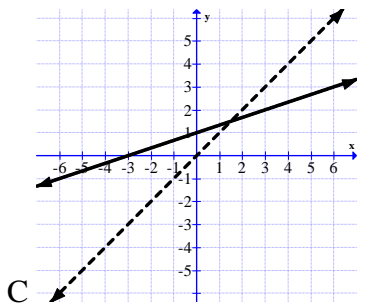
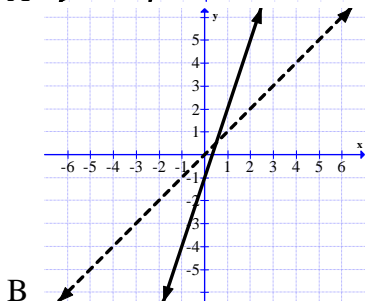
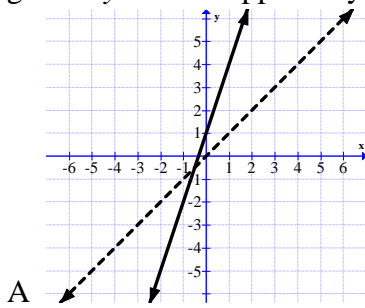
18.



Which equation best describes this graph?

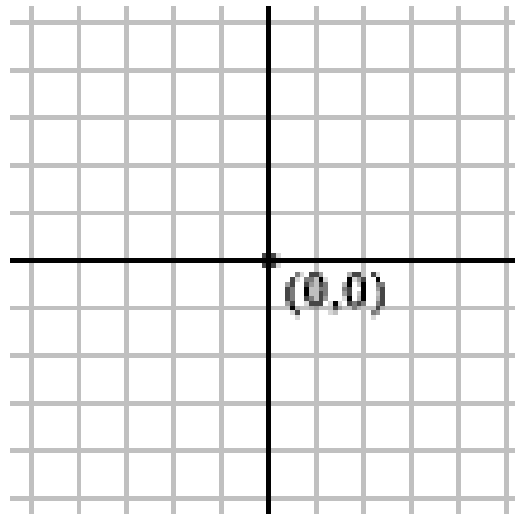
- A  $y = 18 - 3x$
- B  $y = x + 16 - x^2$
- C  $y = 24 - 4x$
- D  $y = x^2 + 6x - 18$

19. The dashed line represents  $y = x$ . On which grid is  $y = 3x + 1$  apparently represented as well?



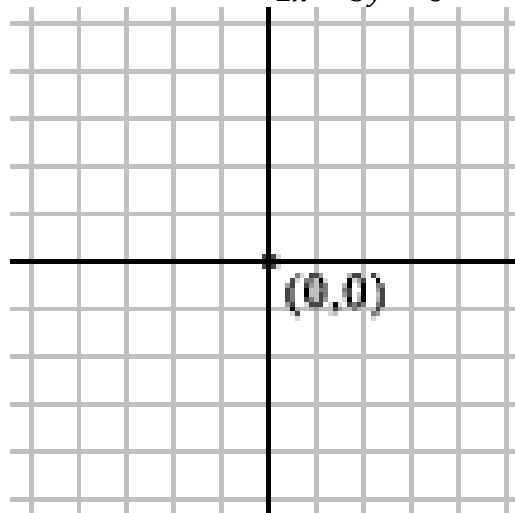
20. Graph the equation

$$y = -2x + 1$$



20.5 Graph the equation

$$2x - 3y = 6$$



21.

$x$	-2	0	2	4
$y$	4	3	2	1

Which equation fits the data in the table?

A  $y = x + 4$       B  $y = \frac{-x}{2} + 3$

C  $y = 2x - 2$       D  $y = \frac{x}{2} + 3$

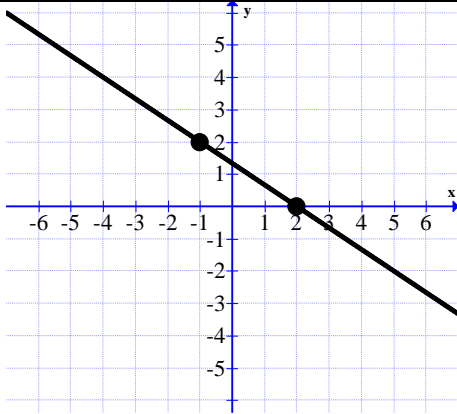
22. Which is an equation for the line which contains (2, 5) and the origin?

A  $y = 2x + 5$

B  $y = 5x + 2$

C  $y = \frac{2}{5}x$

D  $y = \frac{5}{2}x$



23.

The line shown contains  $(-1, 2)$  and  $(2, 0)$ . What is the slope of the line?

F  $\frac{3}{2}$

G  $\frac{2}{3}$

H  $-\frac{2}{3}$

J  $-\frac{3}{2}$

24. Circle each equation whose line has a slope of 3.

$y = 3x + 7$

$-3x + y = 9$

$y = x + 3$

$3x - 3y = 3$

$y - 4 = 3(x - 2)$

$y = 3$

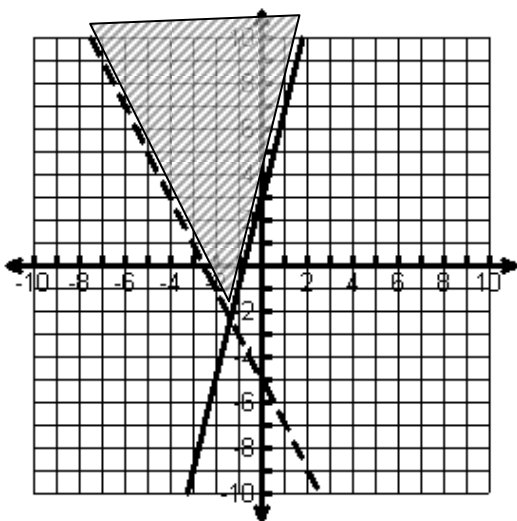
25. Use the given numbers to create an ordered pair representing a solution to  $y < x - 4$ .

**Directions:** You may use a number twice. Be sure to write your answer in the space provided.

ANSWER: ( \_\_\_\_\_ , \_\_\_\_\_ )

-6	-2	-1	0	4
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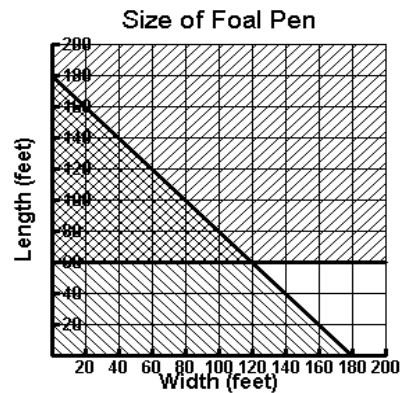
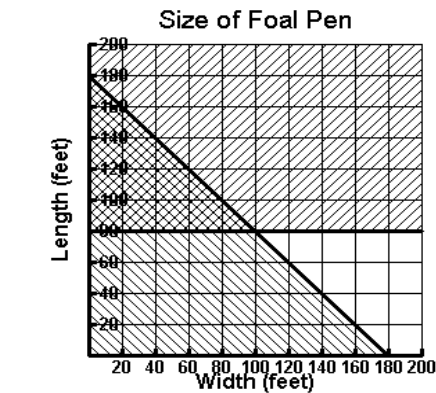
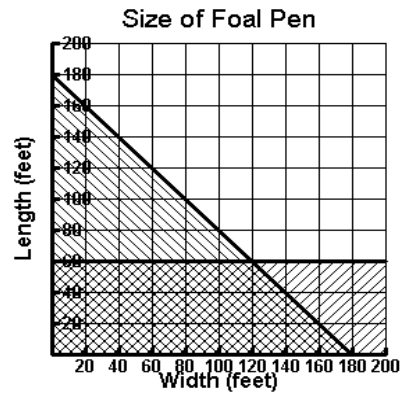
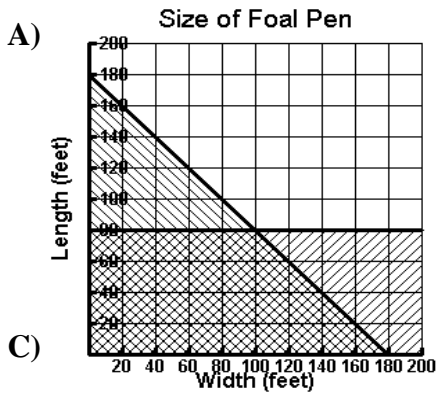
26. Using the inequalities shown, create a system of two inequalities that could be represented by this graph.



Circle the two inequalities that you select.  
You must circle the two correct inequalities

$y \leq 4x + 3$	$-2x - 5 \leq y$
$y < 4x + 3$	$-2x - 5 < y$
$y \geq 4x + 3$	$-2x - 5 \geq y$
$y > 4x + 3$	$-2x - 5 > y$

27. A rancher wants to fence in a rectangular habitat for the foals that are born in the spring. The length of the habitat should be at least 60 feet, and the distance around it should be no more than 360 feet. Select the graph that represents the possible dimensions of the habitat.



28. Jason is beginning his drive home from college. He is traveling at a constant speed. After one hour he is 365 miles from home. After three hours of driving, he is 255 miles from home. Which equation represents Jason's distance from home?

A)  $d(t) = 55t + 420$

B)  $d(t) = -55t + 310$

C)  $d(t) = -55t + 420$

D)  $d(t) = -55t + 255$