

Form

Practice Final 3

3rd try!

Directions: For each of the following questions, decide which of the choices is best and fill in the corresponding space on the answer document.

1. What is the solution(s) for $\frac{1}{2}X = 6$?

- A. 3 only
- B. 3 or -3
- C. 12 only
- D. 12 or -12

ItemID: DD.1000327

2. What is the solution(s) for $|8x| = 24$?

- A. 3 only
- B. -3 only
- C. 3 or -3
- D. no solution

ItemID: DD.1000328

3. What is the solution set for the absolute value of $|5x| = -30$?

- A. $\{-6\}$
- B. $\{6\}$
- C. $\{-6, 6\}$
- D. $\{ \}$

ItemID: DD.1000329

4. What is the solution set for $|-6x| = 15$?

- A. $\left\{2\frac{1}{2}\right\}$
- B. $\left\{-2\frac{1}{2}\right\}$
- C. $\left\{2\frac{1}{2}, -2\frac{1}{2}\right\}$
- D. $\{0\}$

ItemID: DD.1000330

5. Which of the following is the equivalent to $|2x| = 12$? ?

- A. $x = 6$
- B. $x = -6$
- C. $x = 6$ or $x = -6$
- D. $x = 0$ or $x = 6$

ItemID: DD.1000332

6. What is the solution of $|4x| > -20$?

- A. no solution
- B. all numbers greater than -5
- C. all numbers between -5 and 5
- D. all numbers

ItemID: DD.1000333

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7. Which of the following is equivalent to $|2x| > 10$?

- A. $x > 5$
- B. $x < -5$
- C. $x > 5$ and $x < -5$
- D. $x > 5$ or $x < -5$

ItemID: DD.1000334

8. Solve $7|x - 6| = 49$.

- A. $x = 55$
- B. $x = 13$
- C. $x = 55$ or $x = -43$
- D. $x = 13$ or $x = -1$

ItemID: DD-HOLT.1036084

9. Solve $|6x - 9| + 5 = 2$.

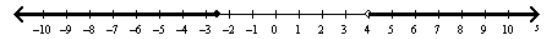
- A. $x = 1$
- B. $x = \frac{11}{6}$
- C. No solution
- D. $x = \frac{8}{3}$

ItemID: DD-HOLT.1036085

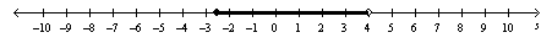
10. Solve and graph the compound inequality.

$$s + 4 < 1.5 \text{ OR } 3 + s \geq 7$$

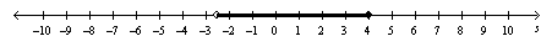
- A. $s < -2.5$ OR $s \geq 4$



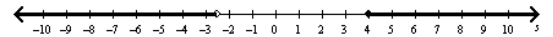
- B. $s < -2.5$ OR $s < 4$



- C. $s < -2.5$ OR $s < 4$

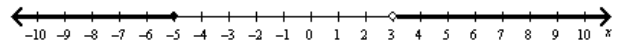


- D. $s < -2.5$ OR $s \geq 4$



ItemID: DD-HOLT.1036112

11. Write the compound inequality shown by the graph.



- A. $x \leq -5$ AND $x > 3$
- B. $x \leq 3$ AND $x > -5$
- C. $x \leq -5$ OR $x > 3$
- D. $x < -5$ OR $x > 3$

ItemID: DD-HOLT.1036113

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12. Which of the following is a solution of $x - 6 < 6$ AND $x + 4 \geq -1$?

- A. 2
- B. 14
- C. 12
- D. -6

ItemID: DD-HOLT.1036114

13. LaDainian tried solving an equation.

On which step did his first error occur?

$$3(6x - 4) - 2(5x + 1) = 22$$

$$\text{Step 1: } 18x - 12 - 2(5x + 1) = 22$$

$$\text{Step 2: } 18x - 12 - 10x + 2 = 22$$

$$\text{Step 3: } 8x - 14 = 22$$

$$\text{Step 4: } 8x = 8$$

$$\text{Step 5: } x = 1$$

- A. Step 1
- B. Step 2
- C. Step 3
- D. Step 4

ItemID: DD.1000345

14. Which of the following is a correct next step in solving

$$5(7x - 3) - 2(x + 1) = 17?$$

- A. $35x - 3 - 2x + 1 = 17$
- B. $35x - 3 - 2x - 1 = 17$
- C. $35x - 15 - 2x - 2 = 17$
- D. $35x - 15 - 2x + 2 = 17$

ItemID: DD.1000346

15. Heather solved the following equation as shown. What is the justification for step 3?

$$5(2x - 3) - 10 = 45$$

$$\text{Step 1: } 10x - 15 - 10 = 45$$

$$\text{Step 2: } 10x - 25 = 45$$

$$\text{Step 3: } 10x - 25 + 25 = 45 + 25$$

$$\text{Step 4: } 10x = 70$$

$$\text{Step 5: } x = 7$$

- A. closure property of addition
- B. distributive property
- C. additive inverse property
- D. addition property of equality

ItemID: DD.1000347

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16. Roberto solved the following equation as shown. On which step did he apply the commutative property of addition as justification?

$$8 + 5(x - 3) = 23$$

Step 1: $8 + 5x - 15 = 23$

Step 2: $5x + 8 - 15 = 23$

Step 3: $5x - 7 = 23$

Step 4: $5x = 30$

Step 5: $x = 6$

- A. Step 1
- B. Step 2
- C. Step 3
- D. Step 4

ItemID: DD.1000348

17. What is n if twice n decreased by 31 is 59?

- A. 90
- B. 45
- C. 28
- D. 14

ItemID: DD.1000349

18. The sum of two numbers is 101 and their difference is 27. What is the lesser number?

- A. 17
- B. 27
- C. 37
- D. 47

ItemID: DD.1000350

19. A rectangle is 10 inches longer than it is wide. If the perimeter is 148 inches, which equation could be used to find the width, w , of the rectangle in inches?

- A. $4w = 148$
- B. $w + (w + 10) = 148$
- C. $2w + (2w + 10) = 148$
- D. $2w + 2(w + 10) = 148$

ItemID: DD.1000351

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20. A tank contains 520 gallons of water. A smaller tank holds 316 gallons of water. The larger tank is draining into the smaller tank at 4 gallons per hour. If t is the number of hours until both tanks have the same number of gallons of water, which equation could solve this problem?

- A. $316 - t = 520 + t$
- B. $316 + t = 520 - t$
- C. $316 - 4t = 520 + 4t$
- D. $316 + 4t = 520 - 4t$

ItemID: DD.1000353

21. The length of a rectangular field is 24 feet longer than the width. The length and width are whole numbers. What is the greatest possible width if the perimeter is less than 210 feet?

- A. 32
- B. 40
- C. 41
- D. 52

ItemID: DD.1000354

22. Eight times a whole number, n , decreased by 16 is at least 73. What is the minimum value of n ?

- A. 8
- B. 10
- C. 11
- D. 12

ItemID: DD.1000355

23. Belinda has saved \$420. She needs at least \$660 for college books next year. Which inequality expresses how many weeks, w , it will take her if she saves \$15 per week?

- A. $420 + 15w \leq 660$
- B. $420 + 15w = 660$
- C. $420 + 15w > 660$
- D. $420 + 15w \geq 660$

ItemID: DD.1000358

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24. The Sanchez family had dinner at their favorite restaurant. A 9 % sales tax was added to their bill. Amy paid the bill with a \$ 10 gift certificate plus \$ 30.60 . How much did the family's dinner cost before tax? Round your answer to the nearest penny.

- A. \$ 43.25
- B. \$ 37.25
- C. \$ 35.95
- D. \$ 36.95

ItemID: DD-HOLT.1036063

25. A video store charges a monthly membership fee of \$7.50, but the charge to rent each movie is only \$1.00 per movie. Another store has no membership fee, but it costs \$2.50 to rent each movie. How many movies need to be rented each month for the total fees to be the same from either company?

- A. 3 movies
- B. 5 movies
- C. 7 movies
- D. 9 movies

ItemID: DD-HOLT.1036068

26. Find three consecutive integers such that twice the greatest integer is 2 less than 3 times the least integer.

- A. 2 , 3 , 4
- B. 4 , 5 , 6
- C. 6 , 7 , 8
- D. 8 , 9 , 10

ItemID: DD-HOLT.1036069

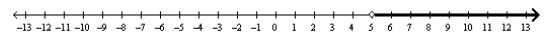
27. What is the greatest possible integer solution of the inequality $2.847x < 15.168$?

- A. 5.33
- B. 4
- C. 6
- D. 5

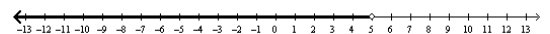
ItemID: DD-HOLT.1036101

28. Solve and graph $6x < 3x + 15$.

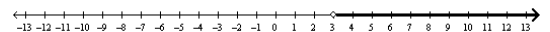
- A. $x > 5$



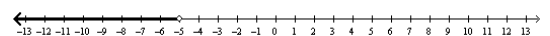
- B. $x < 5$



- C. $x > 3$



- D. $x < -5$



ItemID: DD-HOLT.1036105

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29. Mrs. Williams is deciding between two field trips for her class. The Science Center charges \$ 135 plus \$ 3 per student. The Dino Discovery Museum simply charges \$ 6 per student. For how many students will the Science Center charge less than the Dino Discovery Museum?

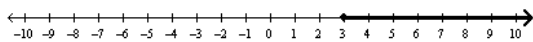
- A. 132 or more students
- B. 132 or fewer students
- C. More than 45 students
- D. Fewer than 45 students

ItemID: DD-HOLT.1036106

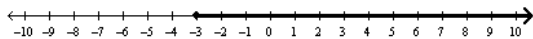
30. Solve the inequality and graph the solution.

$$-3x + 2.5x \leq 1.5(x + 4)$$

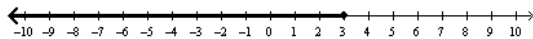
- A. $x \geq 3$



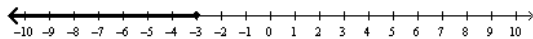
- B. $x \geq -3$



- C. $x \leq 3$



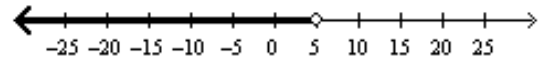
- D. $x \leq -3$



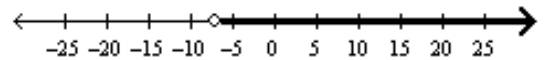
ItemID: DD-HOLT.1036107

31. Solve $-2(m-8) > -2$. Justify each step. Then graph the solution set on a number line.

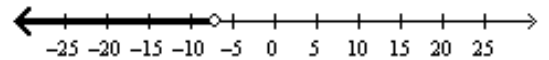
- A. $m < 5$



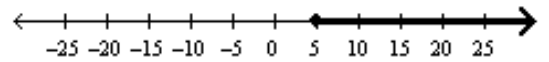
- B. $m > -7$



- C. $m < -7$



- D. $m > 5$



ItemID: DD-HOLT.1037244

32. Juan needs to take a taxi to get to the movies. The taxi charges \$ 3.50 for the first mile, and then \$ 2.75 for each mile after that. If the total charge is \$18.63, then how far was Juan's taxi ride to the movie?

- A. 6.5 miles
- B. 5.3 miles
- C. 6.8 miles
- D. 5.5 miles

ItemID: DD-HOLT.1039723

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33. An amusement park has two types of season passes. Plan 1 charges a one-time fee of \$ 175.00 for admission plus \$ 8.00 every trip for parking. Plan 2 charges a one-time fee of \$ 125.00 for parking plus \$ 13.00 every trip for admission. For what number of trips is the cost of these plans the same?

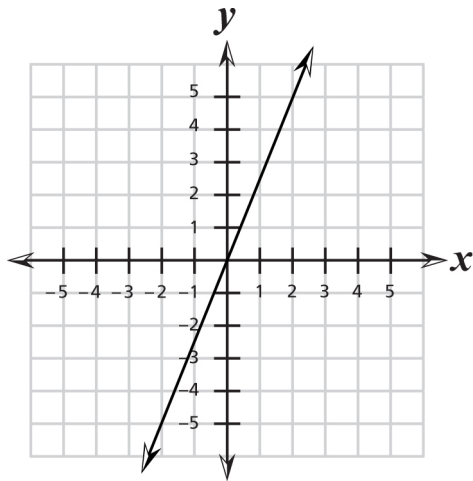
- A. 6 trips
- B. 10 trips
- C. 3 trips
- D. 21 trips

ItemID: DD-HOLT.1039727

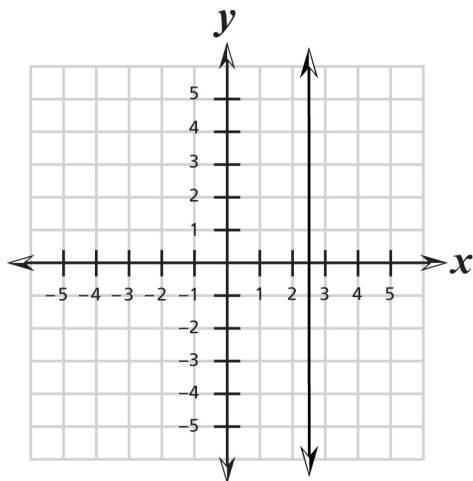
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34. Which graph represents $y = \frac{5}{2}x$?

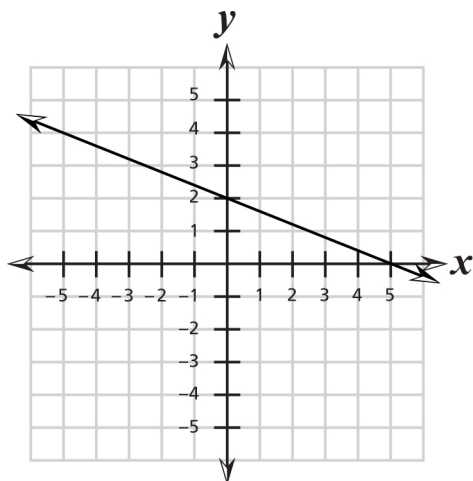
A.



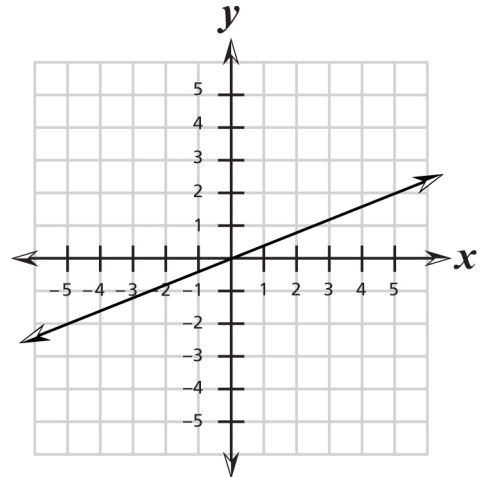
B.



C.



D.

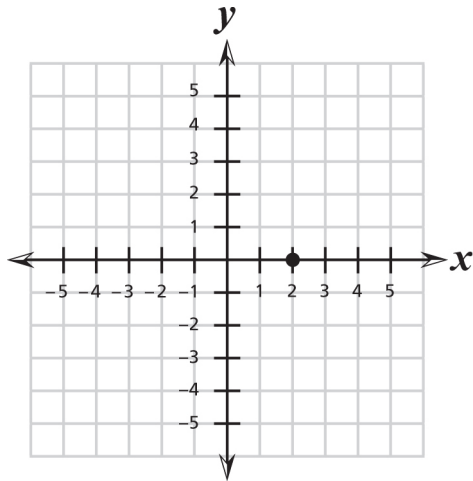


ItemID: DD.1000297

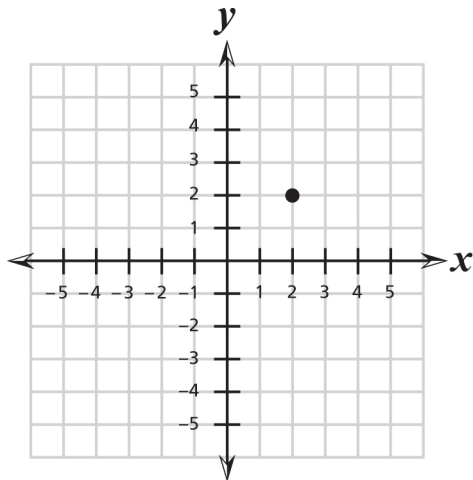
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35. Which graph represents all the points that satisfy $x = 2$?

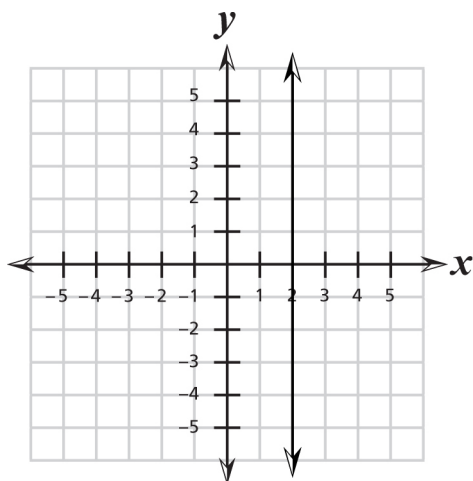
A.



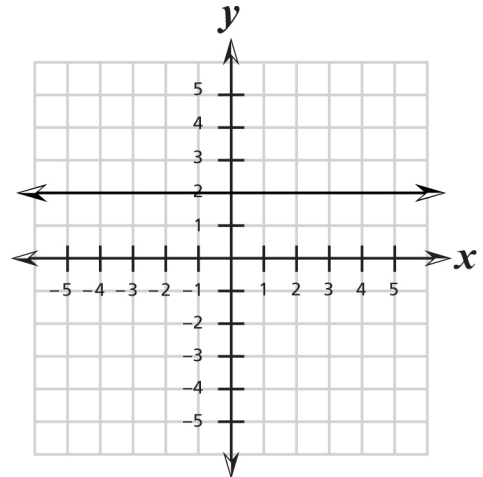
B.



C.



D.



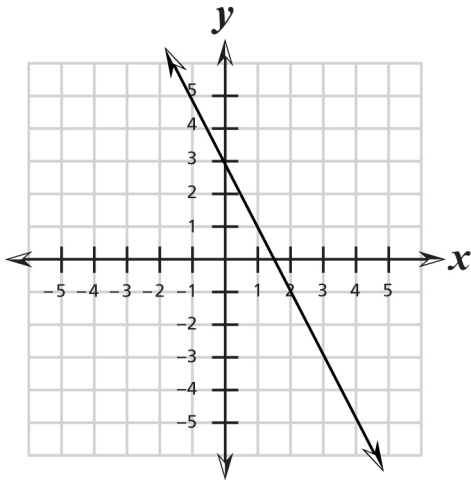
ItemID: DD.1000298

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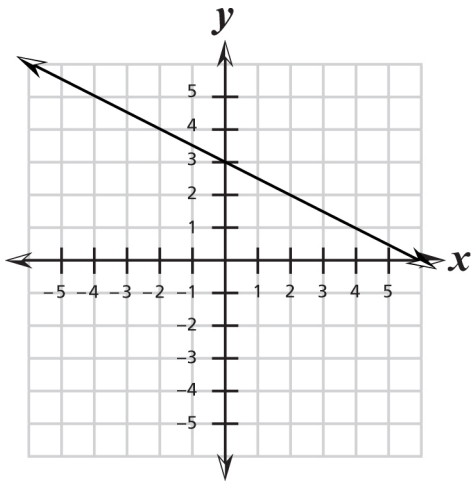
36. Which of the following is the graph

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

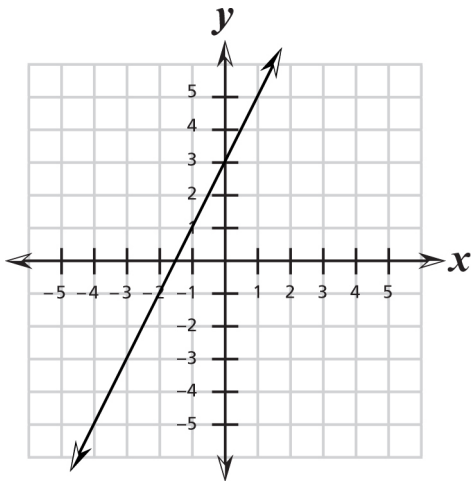
A.



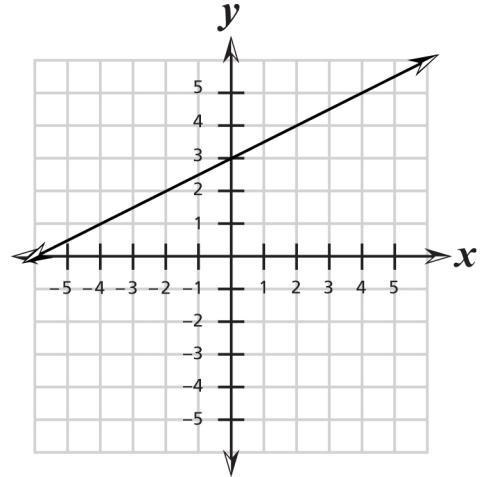
B.



C.



D.

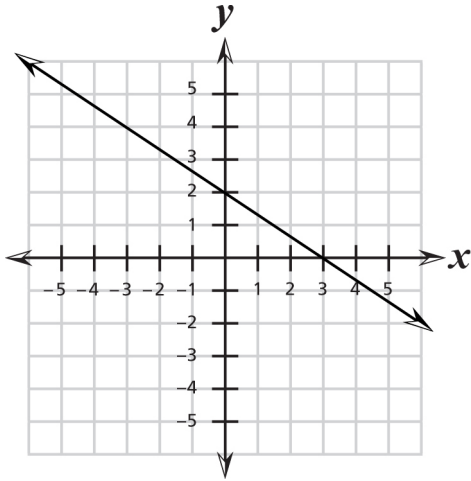


ItemID: DD.1000299

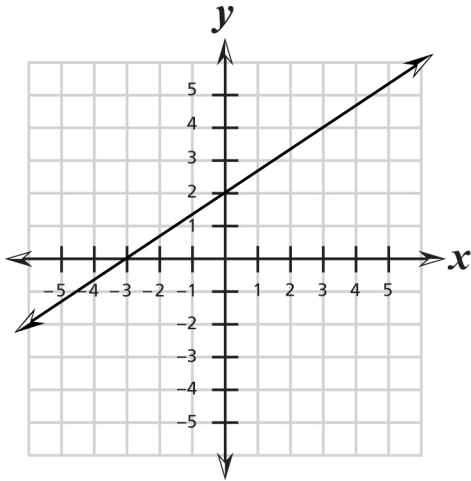
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37. Which of the following is the graph of $2x - 3y = 6$?

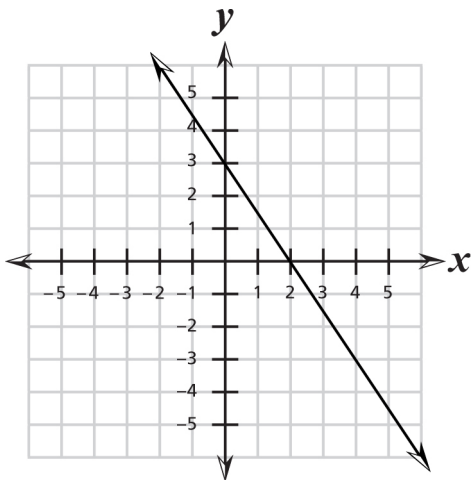
A.



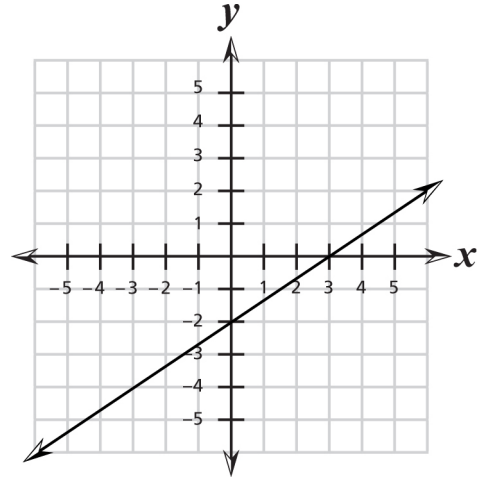
B.



C.

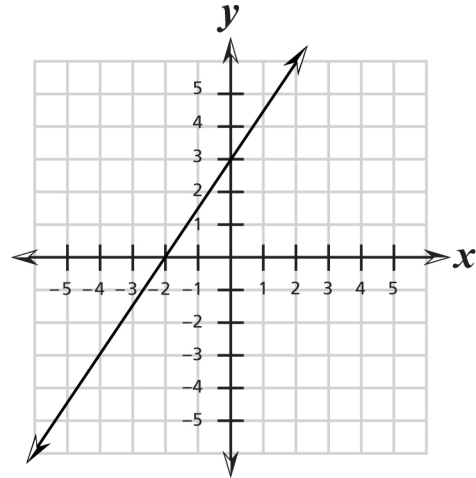


D.



ItemID: DD.1000300

38. What is the sum of the x- and y-intercepts shown?



A. 5

B. 1

C. -5

D. -6

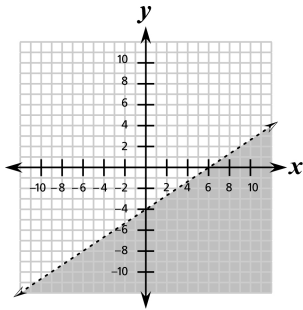
ItemID: DD.1000303

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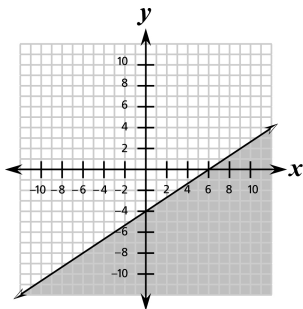
39. Which of the following is the graph of

$$2x - 3y \geq 12?$$

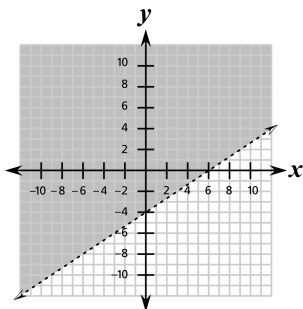
A.



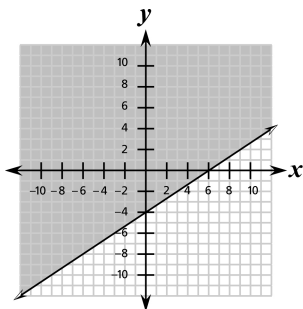
B.



C.



D.

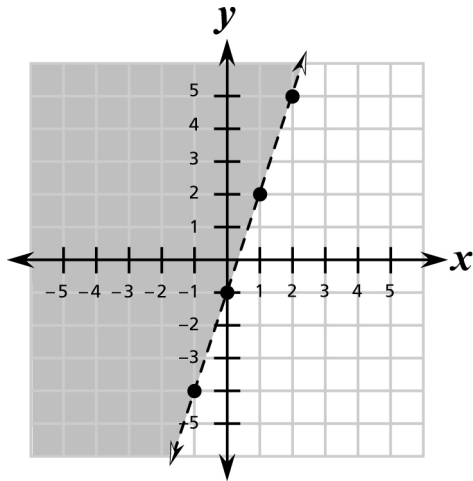


ItemID: DD.1000304

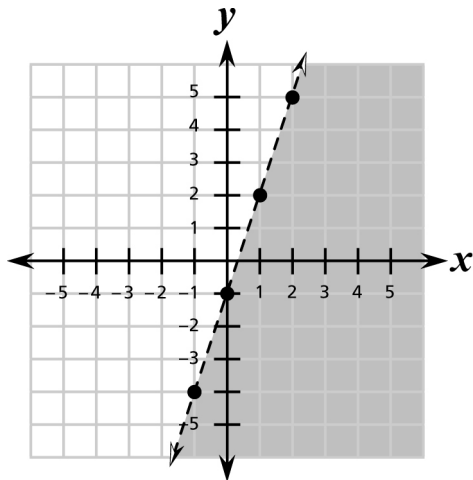
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40. Which of the following is the graph of $y > 3x - 1$?

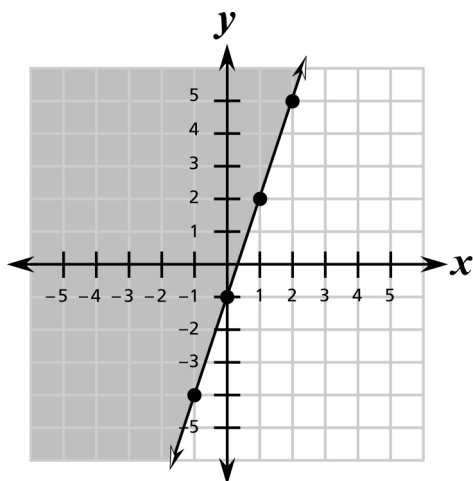
A.



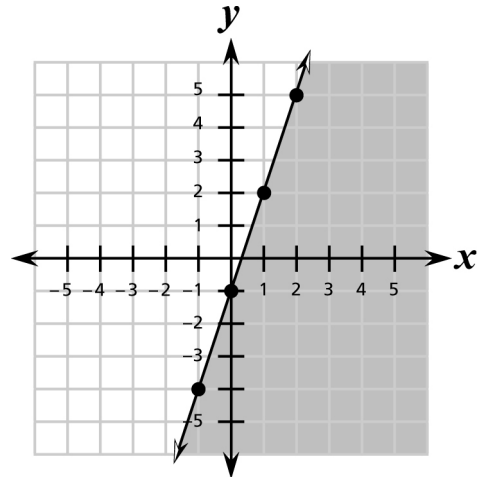
B.



C.



D.



ItemID: DD.1000305

41. What are the x- and y-intercepts of the line defined by $2x - 3y = 12$?

- A. x-int = 6, y-int = -4
- B. x-int = -4, y-int = 6
- C. x-int = 2, y-int = -3
- D. x-int = 6, y-int = 4

ItemID: DD.1000362

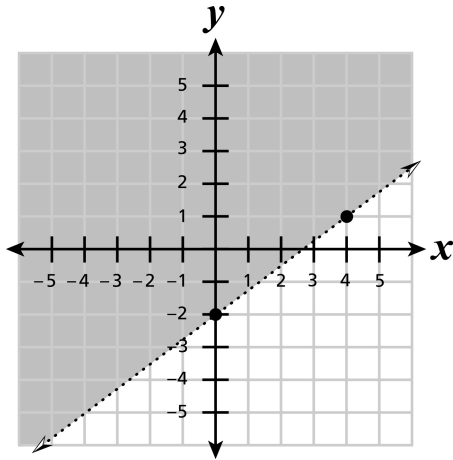
42. What is the y-intercept of the graph of $y = \frac{2}{3}x - \frac{1}{2}$?

- A. $\frac{2}{3}$
- B. $\frac{1}{2}$
- C. $-\frac{1}{2}$
- D. -2

ItemID: DD.1000367

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43. What is the inequality for this



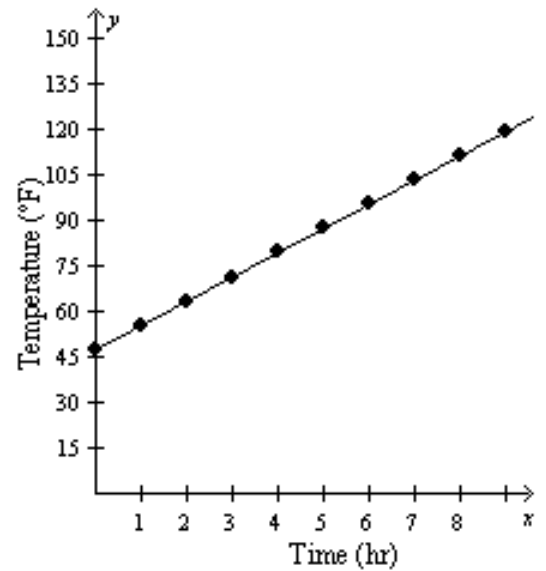
graph?

- A. $y > \frac{4}{3}x - 2$
- B. $y > \frac{3}{4}x - 2$
- C. $y < \frac{4}{3}x - 2$
- D. $y < \frac{3}{4}x - 2$

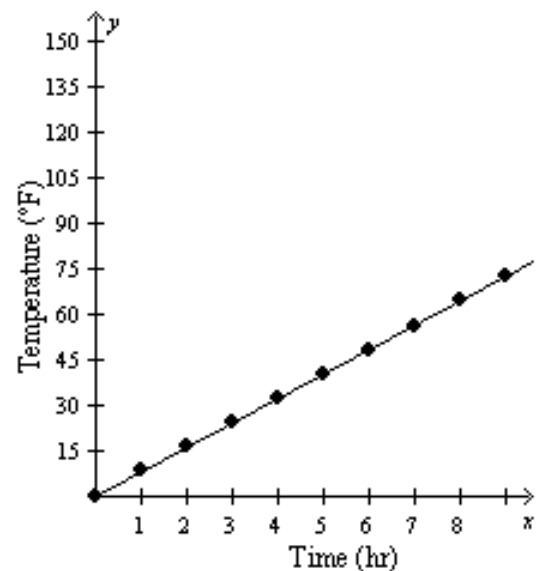
ItemID: DD.1000634

44. The temperature of air in a room that began at 55° F is increasing by 8° F per hour. Write a function that describes the temperature of the air over time. Graph the function to show the temperatures over the first 10 hours.

A. $y = 8x + 47$



B. $y = 8x$

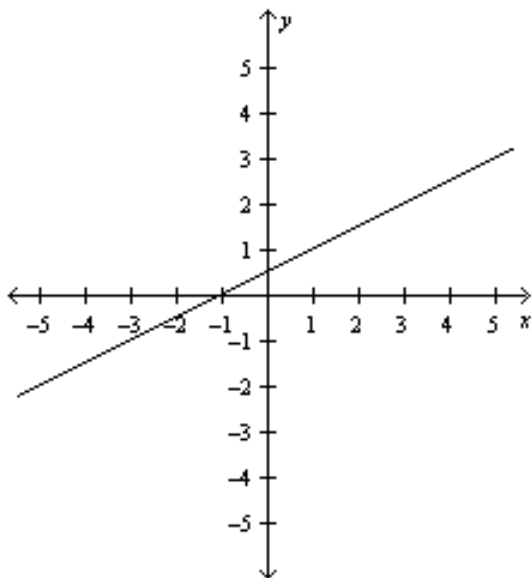


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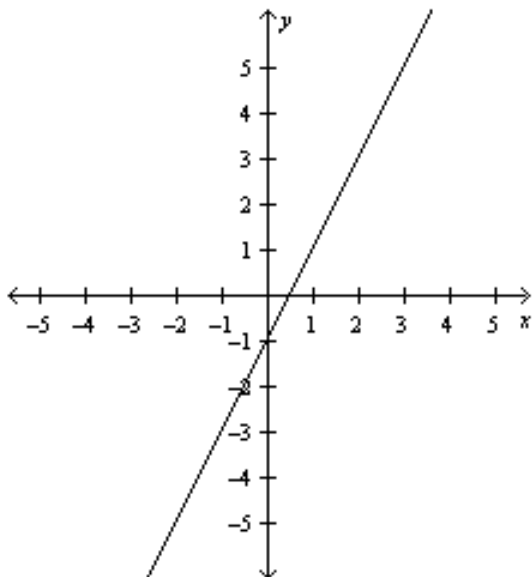
45. Graph the linear equation $y = 2x - 1$. Then tell whether it represents a function.

A.



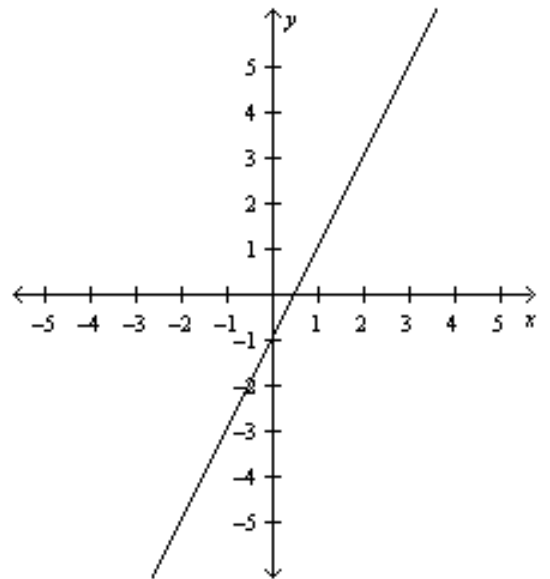
Yes, $y = 2x - 1$ represents a function.

B.



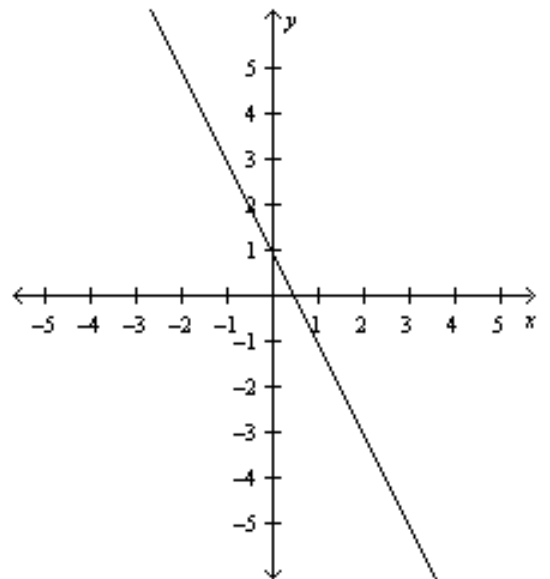
No, $y = 2x - 1$ does not represent a function.

C.



Yes, $y = 2x - 1$ represents a function.

D.

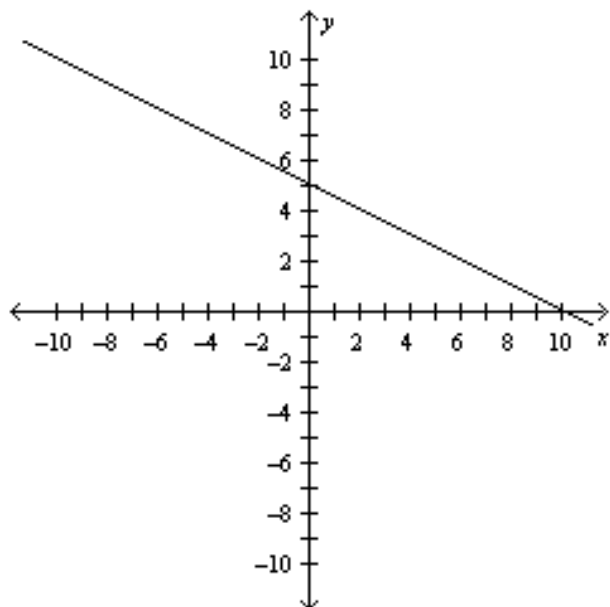


Yes, $y = 2x - 1$ represents a function.

ItemID: DD-HOLT.1036150

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46. Find the x - and y -intercepts.



- A. x -intercept: -10 , y -intercept: 5
- B. x -intercept: 5 , y -intercept: 10
- C. x -intercept: 10 , y -intercept: -5
- D. x -intercept: 10 , y -intercept: 5

ItemID: DD-HOLT.1036155

47. Find the x - and y -intercepts of

$$-x + 2y = 8$$

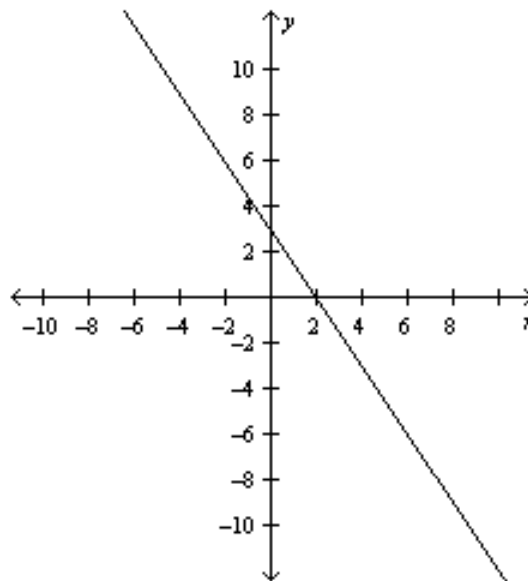
- A. x -intercept: -11 , y -intercept: 4
- B. x -intercept: -11 , y -intercept: 3
- C. x -intercept: -8 , y -intercept: 3
- D. x -intercept: -8 , y -intercept: 4

ItemID: DD-HOLT.1036156

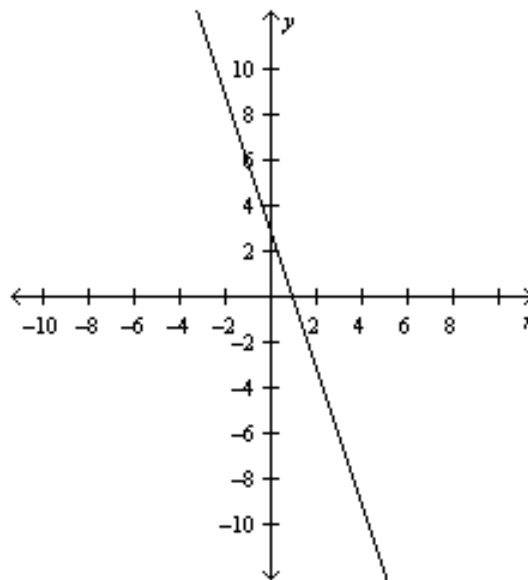
48. Use intercepts to graph the line described by the equation

$$3x + 2y = 6$$

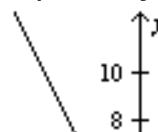
- A. x -intercept: 2 , y -intercept: 3



- B. x -intercept: 1 , y -intercept: 3



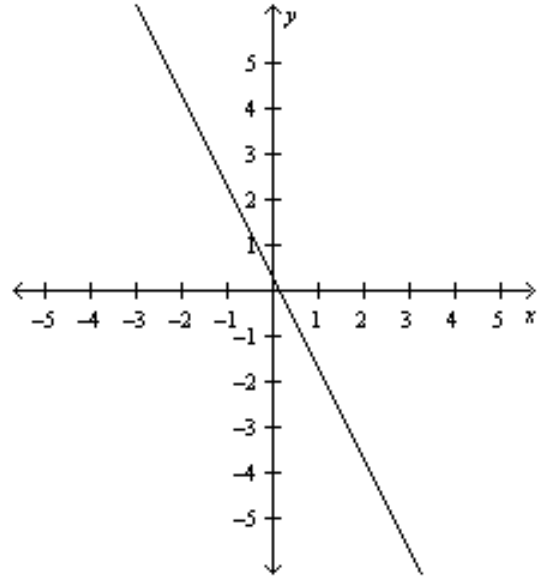
- C. x -intercept: 1 , y -intercept: 2



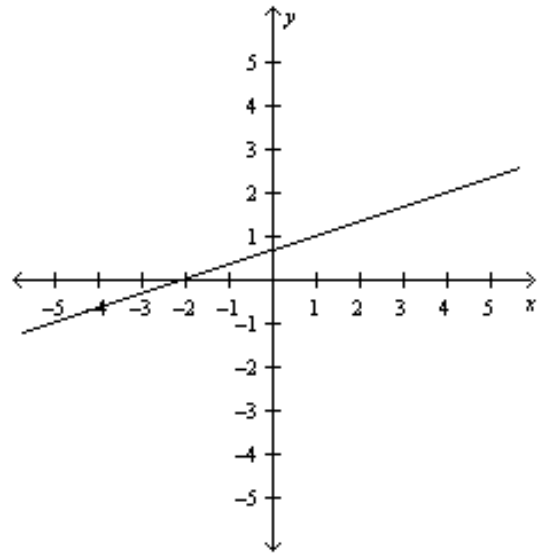
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49. Graph the line with the slope $\frac{1}{3}$ and y-intercept -2 .

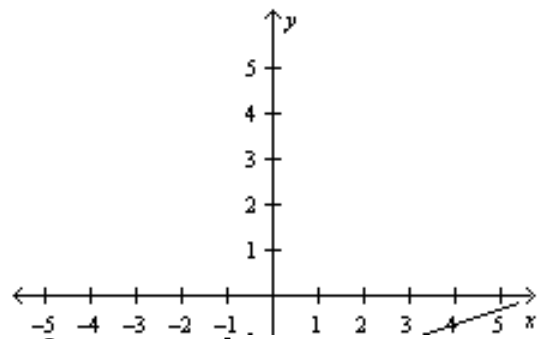
A.



B.



C.

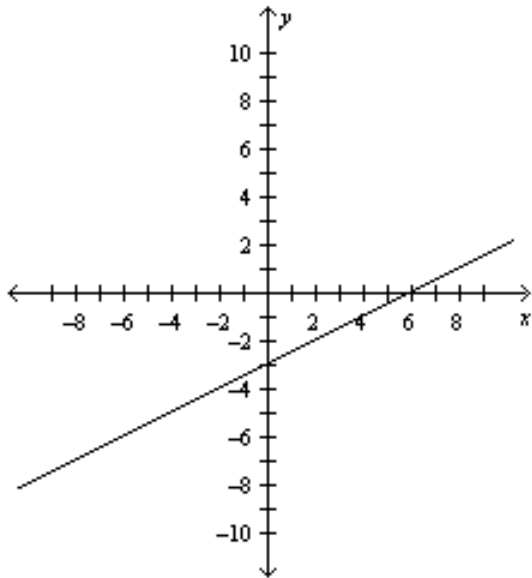


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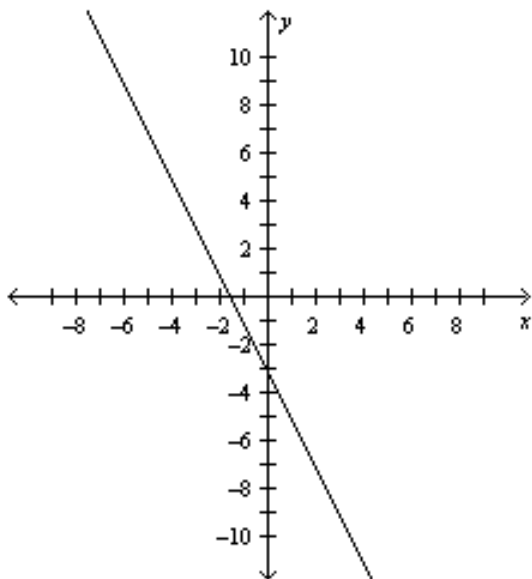
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50. Write the equation $4x + 8y = -24$ in slope-intercept form. Then graph the line described by the equation.

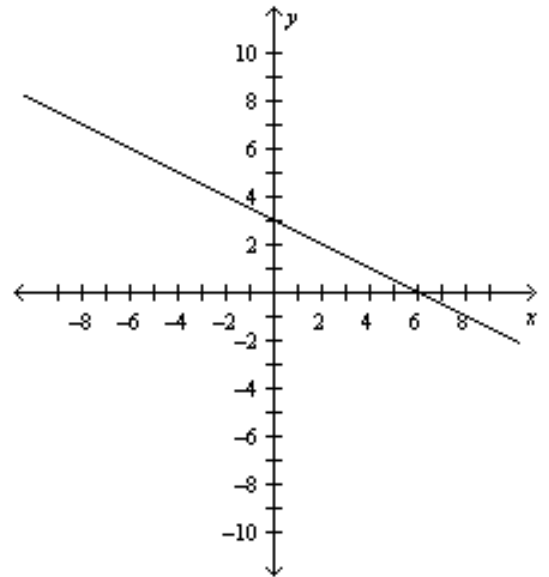
A. $y = -\frac{1}{2}x - 3$



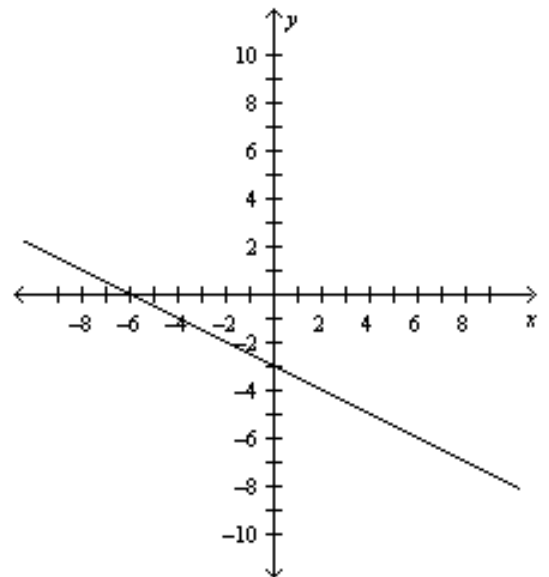
B. $y = -\frac{1}{2}x - 3$



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



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



ItemID: DD-HOLT.1036175

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51. Tell whether $(8, 5)$ is a solution of $y > x + 7$.

A. No, $(8, 5)$ is not a solution of $y > x + 7$.

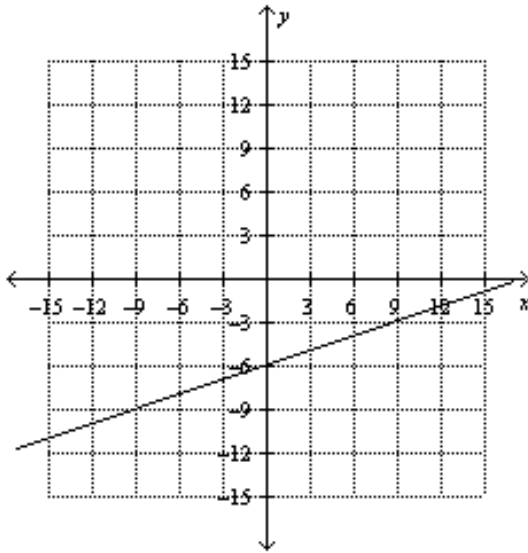
B. Yes, $(8, 5)$ is a solution of $y > x + 7$.

ItemID: DD-HOLT.1036209

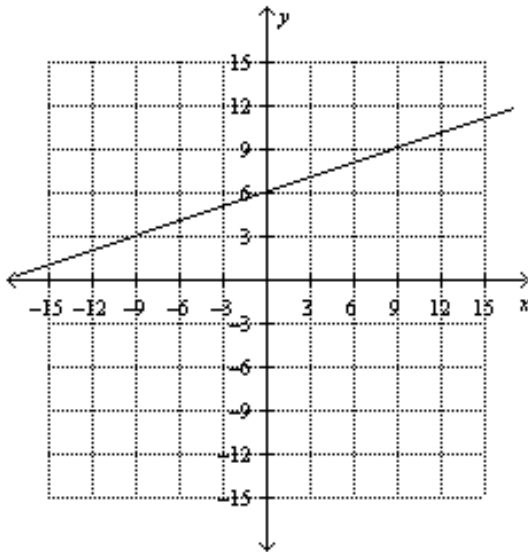
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52. Graph the line with slope $-\frac{1}{3}$ that passes through $(-6, -4)$.

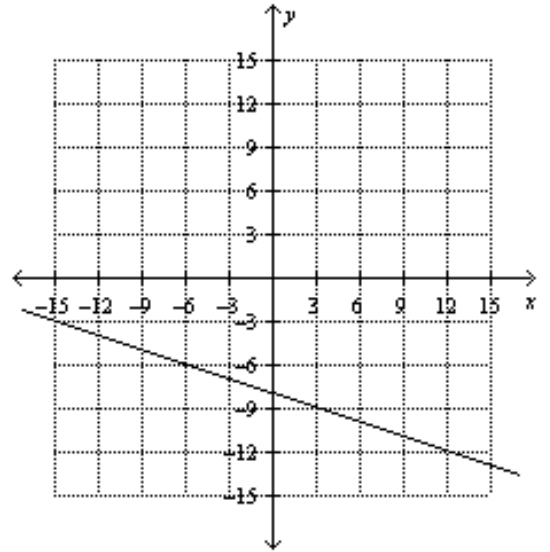
A.



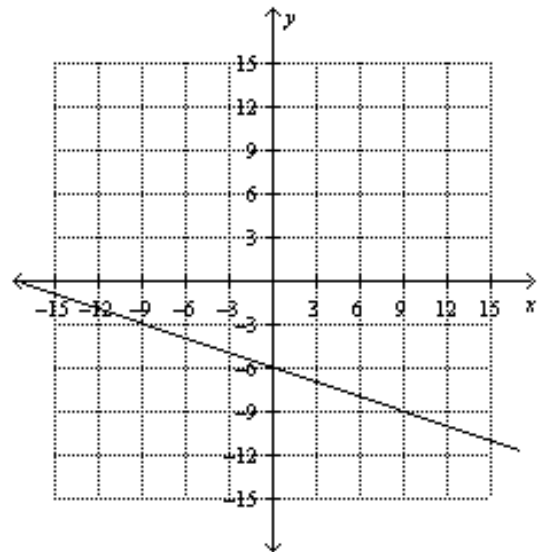
B.



C.



D.

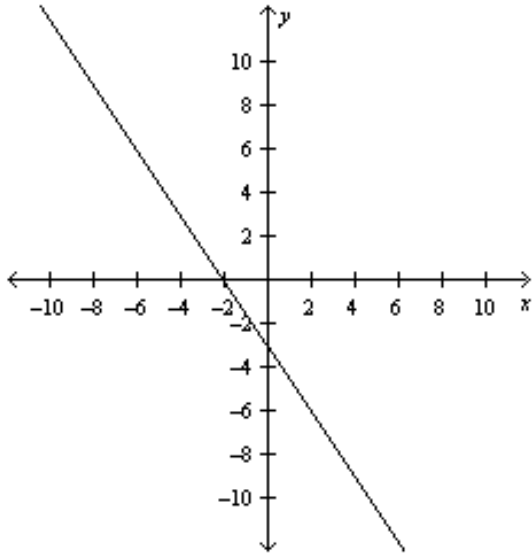


ItemID: DD-HOLT.1036473

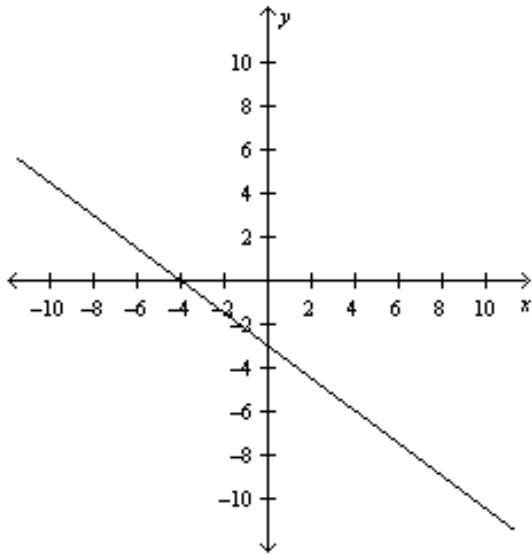
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53. Find the intercepts of $-x - y = 2$, and graph the line.

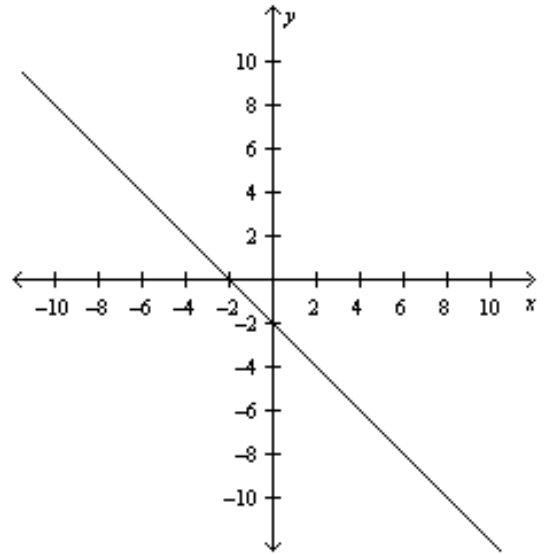
- A. x -intercept: -2 ,
 y -intercept: -3



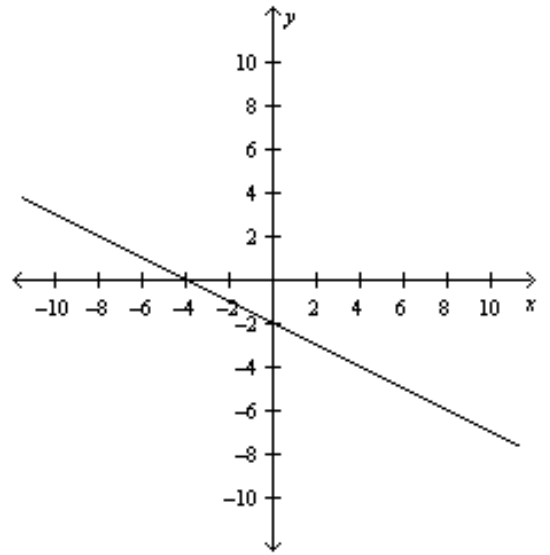
- B. x -intercept: -4 ,
 y -intercept: -3



- C. x -intercept: -2 ,
 y -intercept: -2



- D. x -intercept: -4 ,
 y -intercept: -2



ItemID: DD-HOLT.1036474

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54. Marvel was given the points (3, 1), (1, -1), (3, 2) and (2, 1). Which of those points lie on the line defined by $3x - 2y = 5$?

- A. (1, -1) only
- B. (3, 1) and (2, 1) only
- C. (1, -1) and (3, 2) only
- D. All the points lie on the line.

ItemID: DD.1007249

55. Which equation represents a line having an x-intercept of 3 and a y-intercept of $\frac{2}{5}$?

- A. $y = \frac{2}{5}x + 3$
- B. $y = -\frac{2}{15}(x - 3)$
- C. $y = -\frac{2}{15}(x + 3)$
- D. $y = 3x + \frac{2}{5}$

ItemID: DD.1007250

56. Which equation represents a line having an x-intercept of $\frac{3}{4}$ and a y-intercept of 6?

- A. $y = -8x + 6$
- B. $y = -\frac{1}{8}x + 6$
- C. $y = \frac{1}{8}x + 6$
- D. $y = 8x + 6$

ItemID: DD.1007251

57. Which of the following pairs of points could be used to draw the line defined by $y = \frac{1}{2}x - 4$?

- A. (6, -2) and (4, -2)
- B. (4, -2) and (2, -3)
- C. (2, -3) and (0, 4)
- D. (0, 4) and (6, -2)

ItemID: DD.1007252

58. Without graphing, tell whether the point (10, 37) is on the graph of $y = 3x + 7$.

- A. Yes
- B. No

ItemID: DD-HOLT.1036151

59. Write an equation in slope-intercept form for the line that passes through (3, 7) and (7, 4).

- A. $y = -\frac{3}{4}x + \frac{37}{4}$
- B. $y = \frac{3}{4}x + \frac{37}{4}$
- C. $y = -\frac{4}{3}x + \frac{37}{4}$
- D. $y = -\frac{3}{4}x + \frac{4}{37}$

ItemID: DD-HOLT.1036180

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60. Determine whether the pair of lines $12x + 3y = 3$ and $y = 4x + 1$ are parallel, intersect, or coincide.

- A. intersect
- B. coincide
- C. parallel

ItemID: DD-HOLT.1037336

61. The solution of the system

$$\begin{cases} 2x + 5y = 2 \\ 2x - y = 14 \end{cases}$$

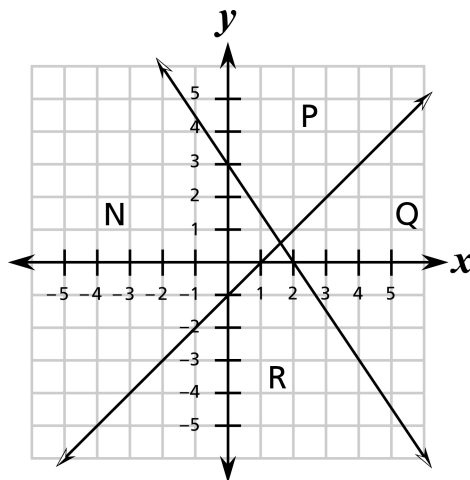
is (a, b) . What is $a + b$?

- A. -8
- B. -4
- C. 4
- D. 8

ItemID: DD.1007257

62. Which region represents

the solution of $\begin{cases} y \leq -\frac{3}{2}x + 3 \\ y \geq x - 1 \end{cases}$?

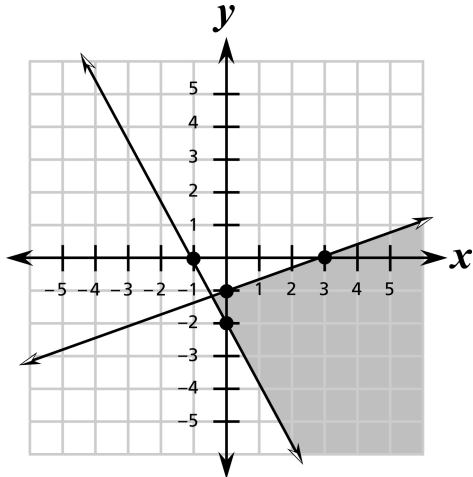


- A. Region N
- B. Region P
- C. Region Q
- D. Region R

ItemID: DD.1007258

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63. The shaded region represents the solution of which pair of inequalities?



- A. $\begin{cases} y \geq -2x - 2 \\ y \geq \frac{1}{3}x - 1 \end{cases}$
- B. $\begin{cases} y \geq -2x - 2 \\ y \leq \frac{1}{3}x - 1 \end{cases}$
- C. $\begin{cases} y \leq -2x - 2 \\ y \geq \frac{1}{3}x - 1 \end{cases}$
- D. $\begin{cases} y \leq -2x - 2 \\ y \leq \frac{1}{3}x - 1 \end{cases}$

ItemID: DD.1007259

64. Tell whether the ordered pair (5 , -3) is a solution of the system

$$\begin{cases} -3x + 2y = -21 \\ -x - y = -2 \end{cases}$$

- A. no
- B. yes

ItemID: DD-HOLT.1036188

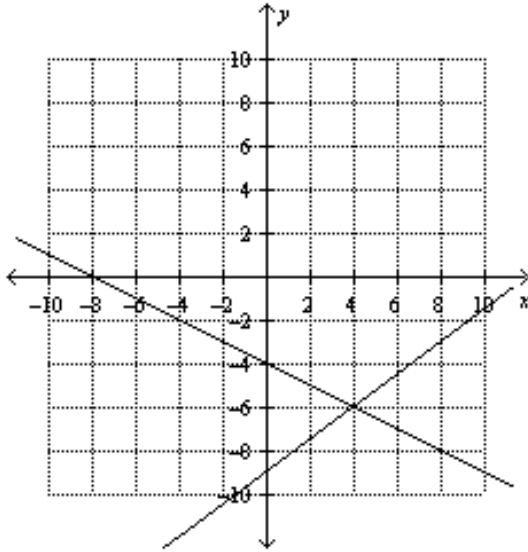
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65.

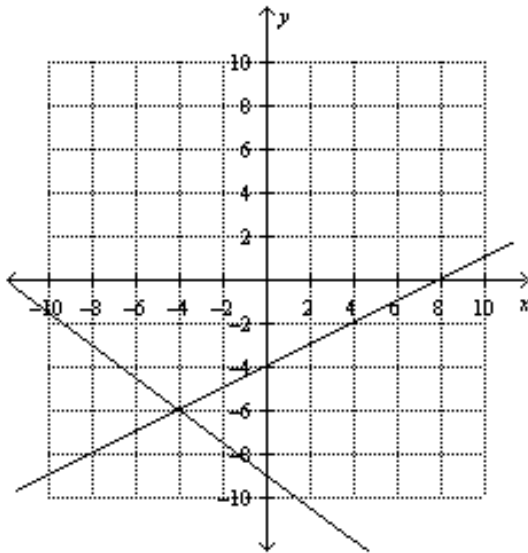
Solve the system by graphing.

$$\begin{cases} 3x + 4y = -36 \\ -2x + 4y = -16 \end{cases}$$

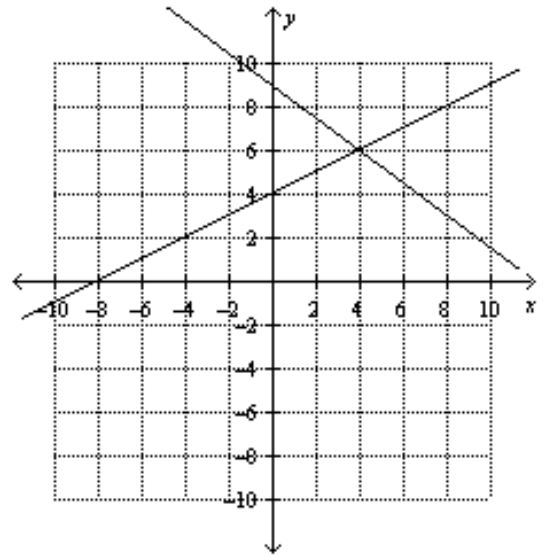
A. $(4, -6)$



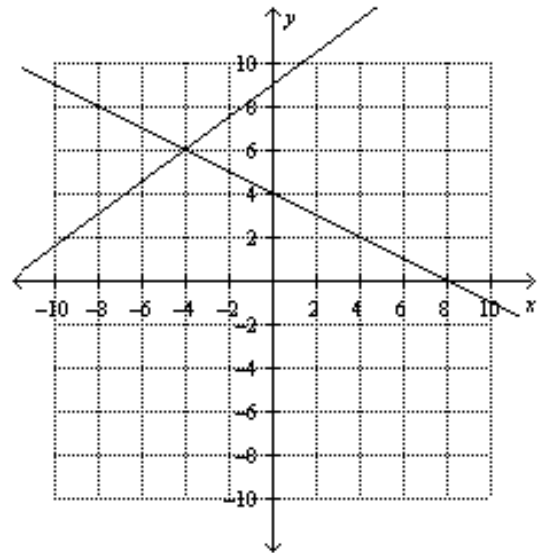
B. $(-4, -6)$



C. $(4, 6)$



D. $(-4, 6)$



ItemID: DD-HOLT.1036189

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66. Solve $\begin{cases} 3x + y = -3 \\ y = x + 5 \end{cases}$ by substitution. Express your answer as an ordered pair.

- A. $(3, -2)$
- B. $(-\frac{8}{3}, -3)$
- C. $(-\frac{4}{3}, 1)$
- D. $(-2, 3)$

ItemID: DD-HOLT.1036192

67. Solve $\begin{cases} 4x - 4y = -16 \\ x - 2y = -12 \end{cases}$ by substitution. Express your answer as an ordered pair.

- A. $(8, -4)$
- B. $(4, -8)$
- C. $(-2, 4)$
- D. $(4, 8)$

ItemID: DD-HOLT.1036193

68. Solve $\begin{cases} 2a - b + c = -5 \\ a - b = -2 \\ 2a + b = 5 \end{cases}$ by substitution.

- A. $a = 1, b = 3, c = -6$
- B. $a = 1, b = 3, c = -4$
- C. $a = -2, b = 0, c = -2$
- D. $a = -2, b = 0, c = -1$

ItemID: DD-HOLT.1036195

69. Solve $\begin{cases} 3x - 6y = 12 \\ 2x + 6y = -12 \end{cases}$ by elimination. Express your answer as an ordered pair.

- A. $(-2, -3)$
- B. $(-2, 0)$
- C. $(0, -2)$
- D. $(-8, -6)$

ItemID: DD-HOLT.1036196

Go on to the next page >>

70. Solve $\begin{cases} 3x - 2y = 15 \\ x - 2y = 5 \end{cases}$ by elimination. Express your answer as an ordered pair.

- A. (5 , 0)
- B. (5 , 17.5)
- C. (5 , 22.5)
- D. (5 , 1)

ItemID: DD-HOLT.1036197

71. Solve $\begin{cases} 2x - 5y = -7 \\ 5x - 3y = 11 \end{cases}$ by elimination. Express your answer as an ordered pair.

- A. (3 , 4)
- B. (4 , 3)
- C. (3 , 2)
- D. $(\frac{4}{7}, \frac{8}{5})$

ItemID: DD-HOLT.1036198

72. The sum of the digits of a two-digit number is 8. If the number is multiplied by 4, the result is 104. Write and solve a system of equations. Find the number.

A. $\begin{cases} x + y = 8 \\ 4(x + y) = 104 \end{cases}$

The number is 35.

B. $\begin{cases} x + y = 8 \\ 4(10x + y) = 104 \end{cases}$

The number is 17.

C. $\begin{cases} x + y = 8 \\ 4(2x + y) = 104 \end{cases}$

The number is 18.

D. $\begin{cases} x + y = 8 \\ 4(10x + y) = 104 \end{cases}$

The number is 26.

ItemID: DD-HOLT.1036200

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73. Solve
$$\begin{cases} y = -x + 8 \\ x + y = 7 \end{cases}$$
.

- A. $(\frac{1}{2}, \frac{15}{2})$
- B. This system has infinitely many solutions.
- C. $(-\frac{1}{2}, \frac{17}{2})$
- D. This system has no solutions.

ItemID: DD-HOLT.1036201

74. Solve
$$\begin{cases} y = 2x - 1 \\ 2x - y - 1 = 0 \end{cases}$$
.

- A. This system has exactly one solution.
- B. This system has infinitely many solutions.
- C. This system has no solution.
- D. $(1, 1)$ and $(0, 0)$

ItemID: DD-HOLT.1036202

75. Classify
$$\begin{cases} x - 8y = 6 \\ 2x - 16y = 12 \end{cases}$$
. Give the number of solutions.

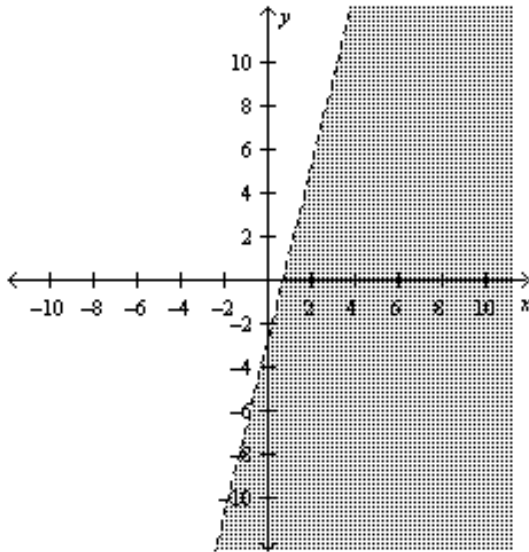
- A. This system is inconsistent. It has no solutions.
- B. This system is consistent. It has infinitely many solutions.
- C. This system is consistent. It has one solution.
- D. This system is inconsistent. It has infinitely many solutions.

ItemID: DD-HOLT.1036203

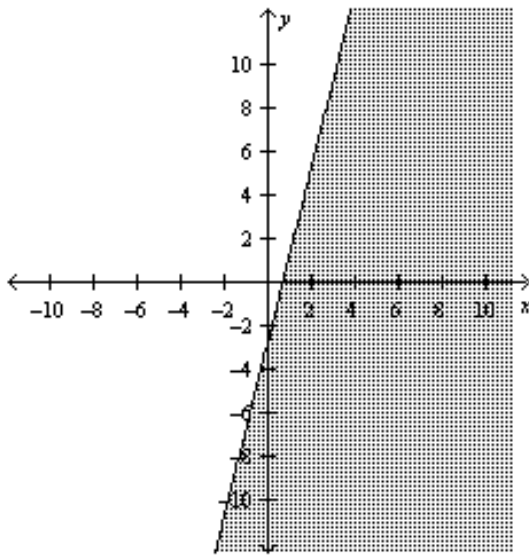
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76. Graph the solutions of the linear inequality $-8x + 2y > -6$.

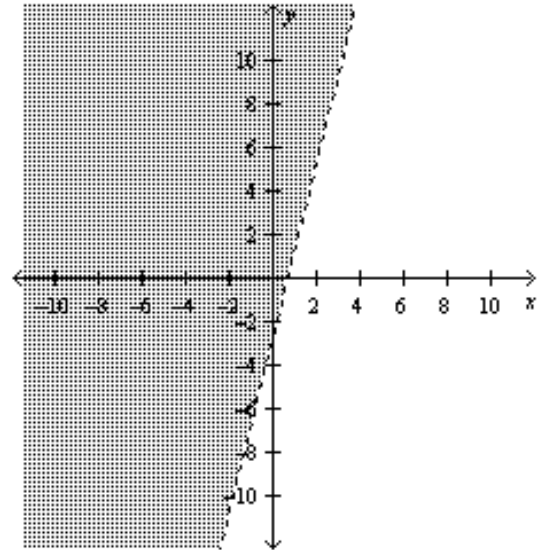
A.



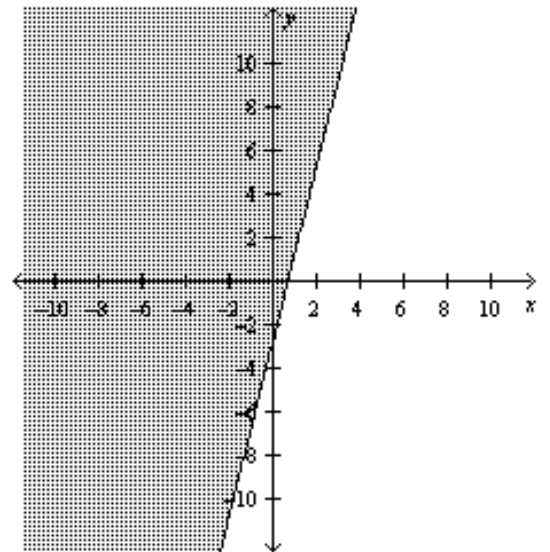
B.



C.



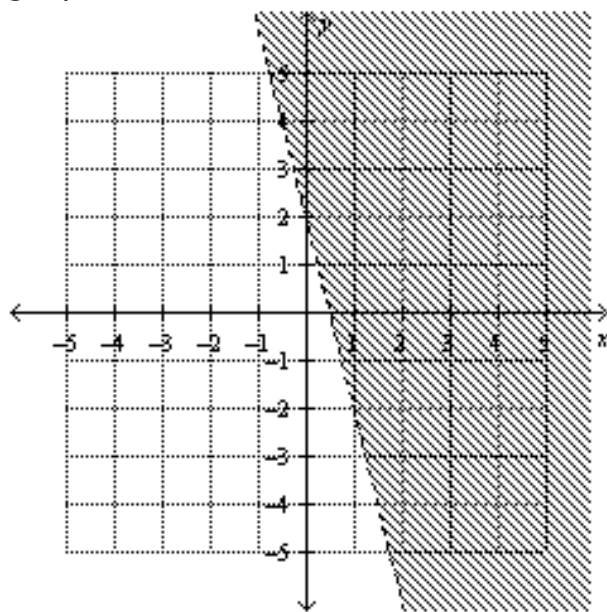
D.



ItemID: DD-HOLT.1036211

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77. Write an inequality to represent the graph.



- A. $y \geq -4x + 2$
- B. $y > 2x - 4$
- C. $y > -4x + 2$
- D. $y < -4x + 2$

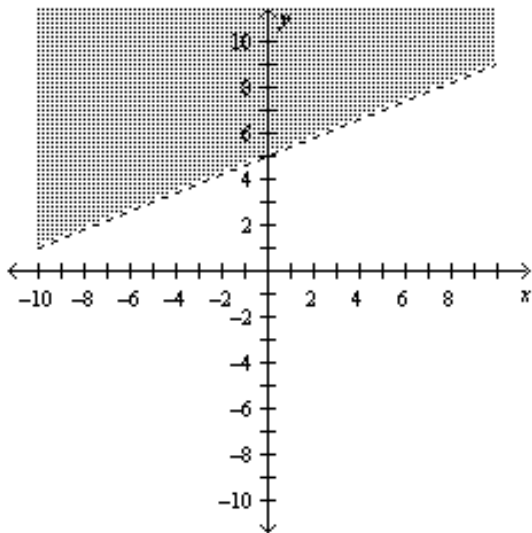
ItemID: DD-HOLT.1036213

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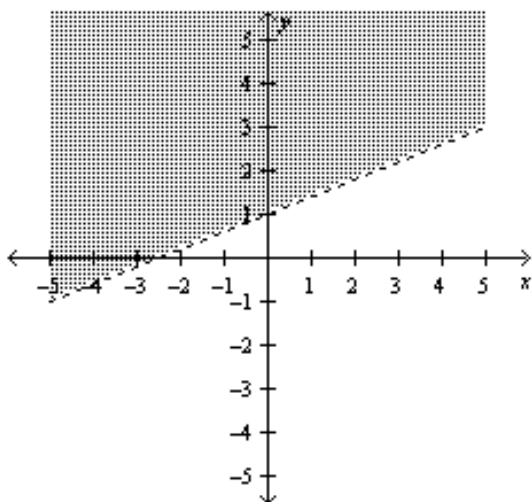
78. Graph the inequality

$$0 > 15 + 6x - 15y$$

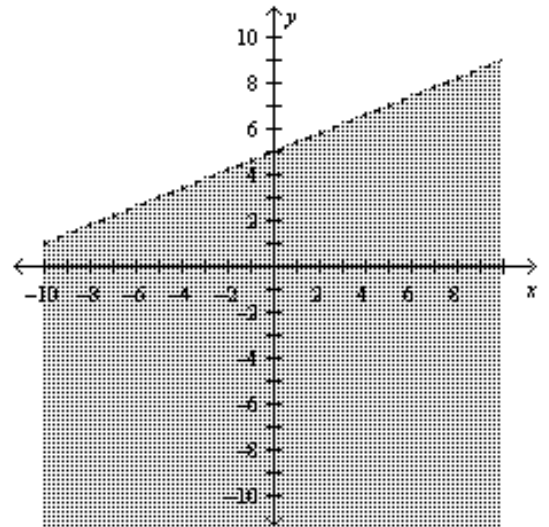
A.



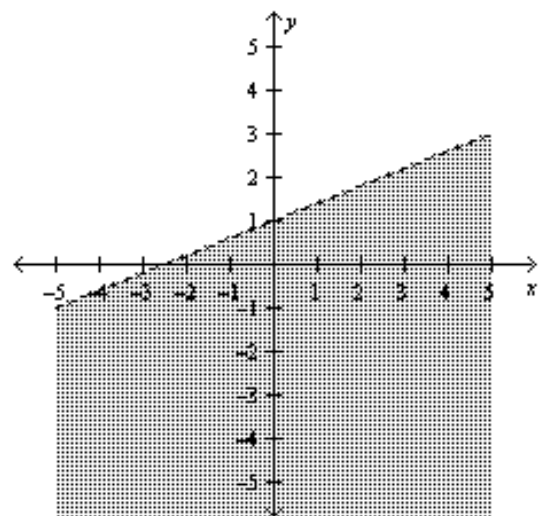
B.



C.



D.



ItemID: DD-HOLT.1036214

79. Tell whether $(2, 7)$ is a solution of

$$\begin{cases} y \geq 4x \\ y < x + 2 \end{cases}$$

A. No, $(2, 7)$ is not a solution of the system.

B. Yes, $(2, 7)$ is a solution of the system.

ItemID: DD-HOLT.1036215

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80. Estimate the area of the overlapping solution regions.

$$\begin{cases} x \geq 0 \\ y \geq x - 2.5 \\ y \leq -x + 4 \end{cases}$$

- A. About 12 square units
- B. About 10 square units
- C. About 19 square units
- D. About 8 square units

ItemID: DD-HOLT.1036219

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