

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Answer the question.

1) Determine whether (2, -4) is a solution to the equation $2x - 3y = -8$. 1) _____

A) no

B) yes

Complete the ordered pair for the equation.

2) $y = -4x - 5$; (2,) 2) _____

A) -3

B) 3

C) 13

D) -13

3) Which table of points is correct for the equation $-y = 36 - 9x$ 3) _____

A)

x	y
0	-36
4	0
-4	-72

B)

x	y
3	9
0	4
-3	63

C)

x	y
0	36
4	0
-4	72

D)

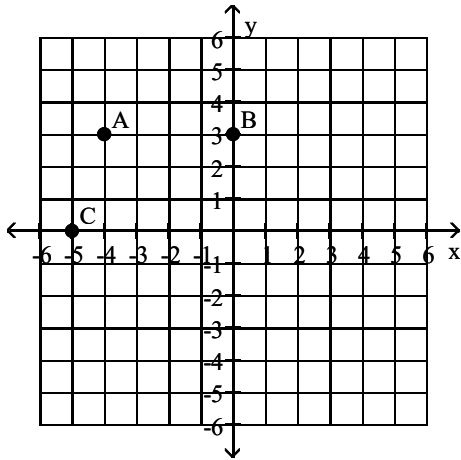
x	y
-36	0
0	4
-72	-4

Plot the ordered pairs.

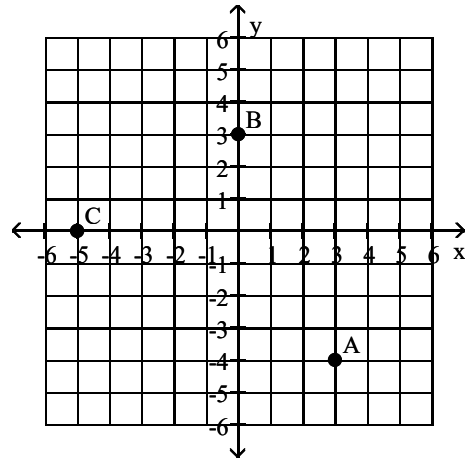
4) $A: (-4, 3); B: (3, 0); C: (0, -5)$

4) _____

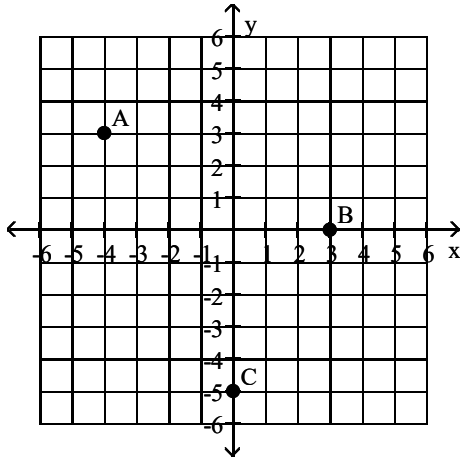
A)



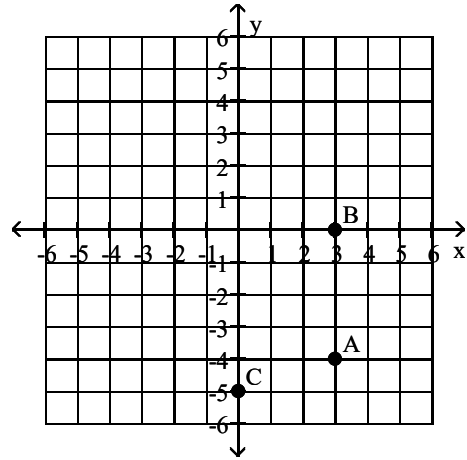
B)



C)



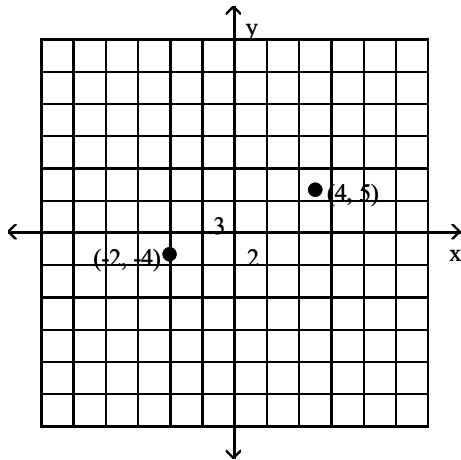
D)



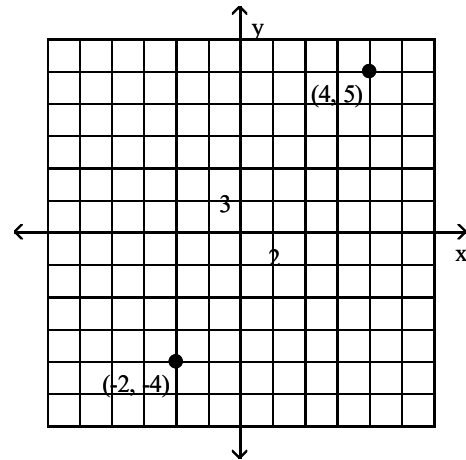
Answer the question.

5) Which of the following graphs shows the correct location of the points $(4, 5)$ and $(-2, -4)$? 5) _____

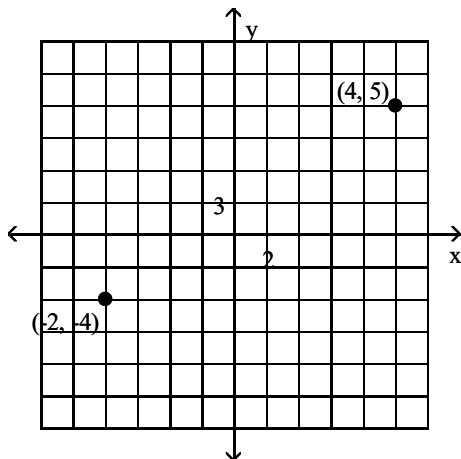
A)



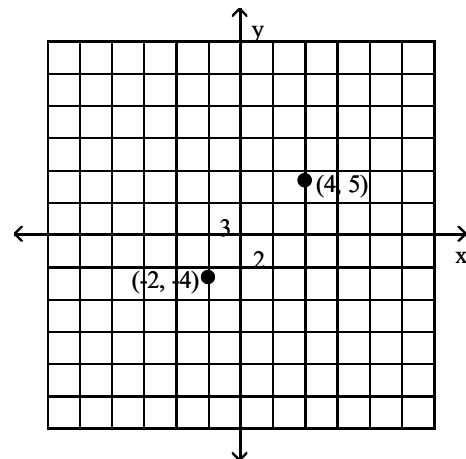
B)



C)



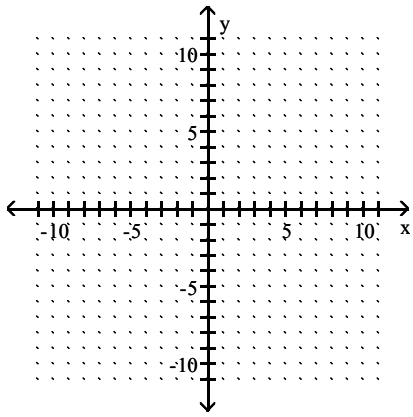
D)



Find three ordered pair solutions by completing the table. Then use the ordered pairs to graph the equation.

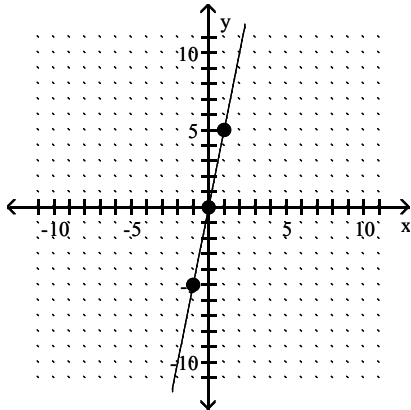
6) $y = 4x + 5$ 6) _____

x	y
0	
1	
-1	



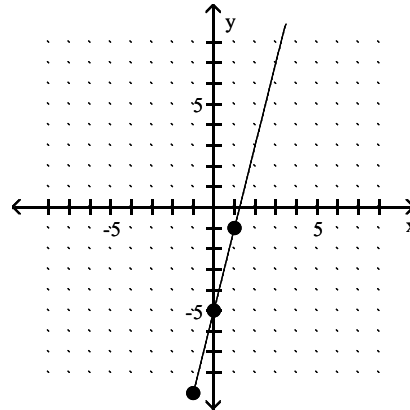
A)

x	y
0	0
1	5
-1	-5



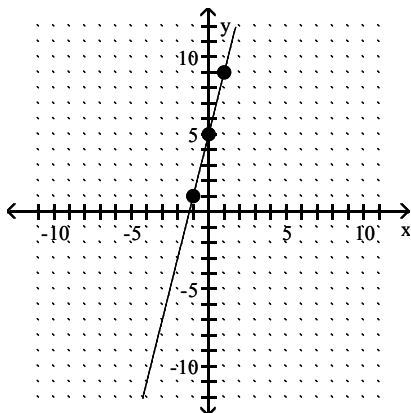
B)

x	y
0	-5
1	-1
-1	-9



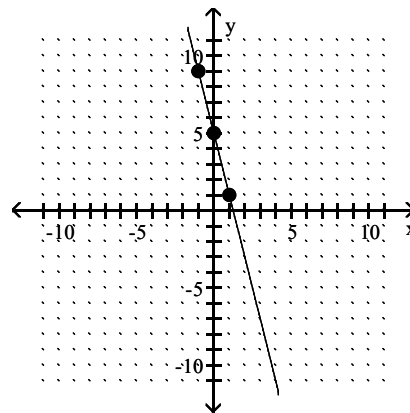
C)

x	y
0	5
1	9
-1	1



D)

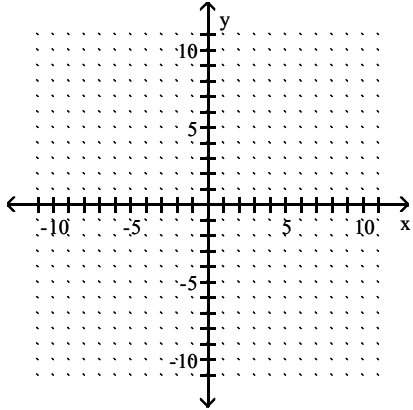
x	y
0	5
1	1
-1	9



7) $y = -2x + 6$

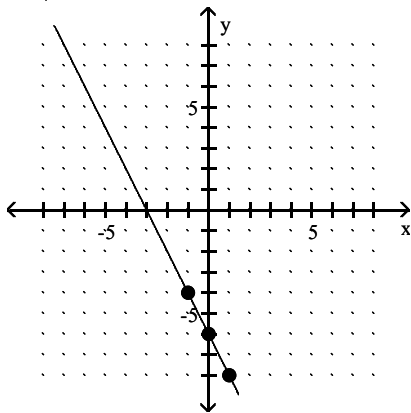
7) _____

x	y
0	
1	
-1	



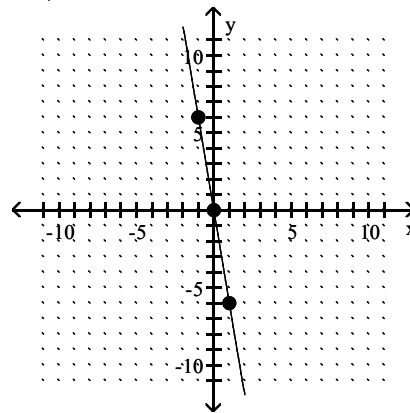
A)

x	y
0	-6
1	-8
-1	-4



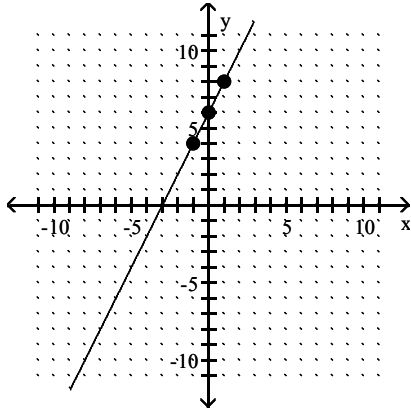
B)

x	y
0	0
1	-6
-1	6



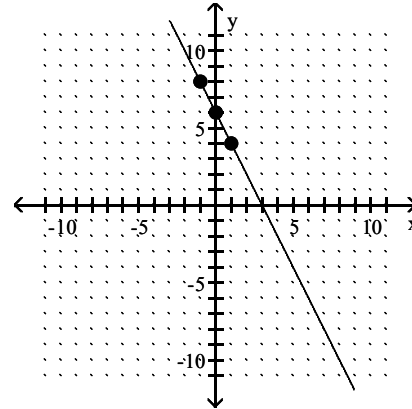
C)

x	y
0	6
1	8
-1	4



D)

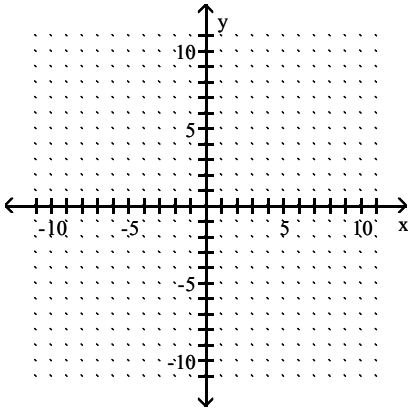
x	y
0	6
1	4
-1	8



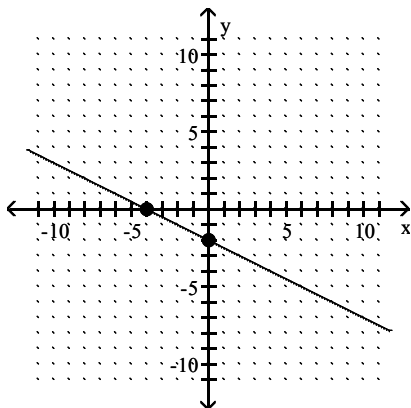
Graph the linear equation by finding and plotting its intercepts.

8) $-2x - 4y = 8$

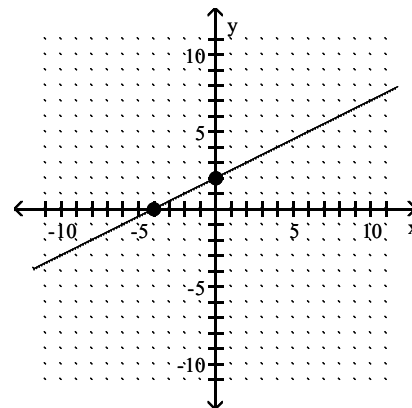
8) _____



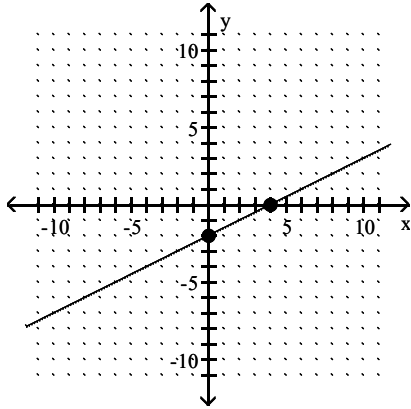
A)



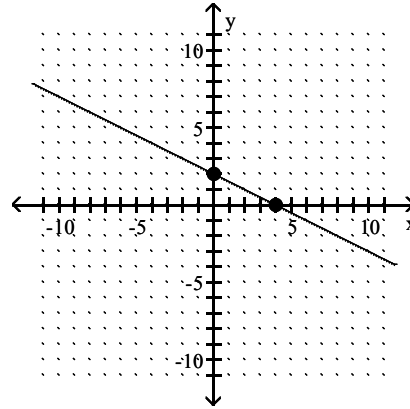
B)



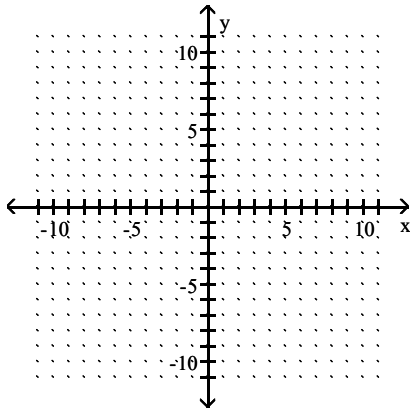
C)



D)

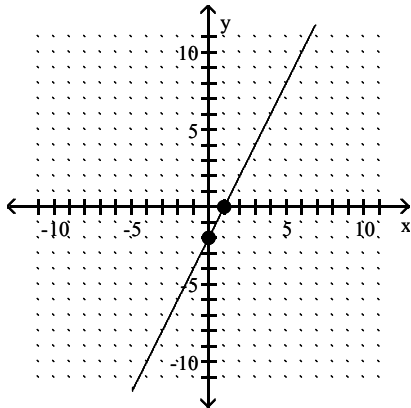


9) $-x + 2y = -2$

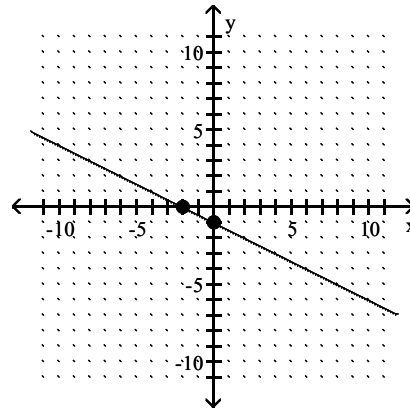


9) _____

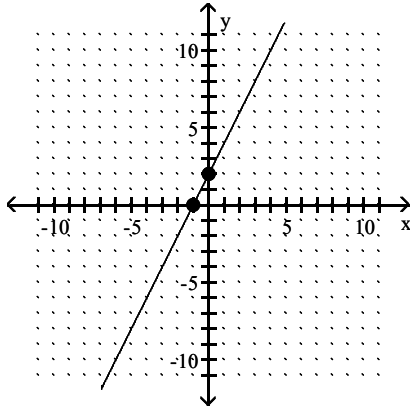
A)



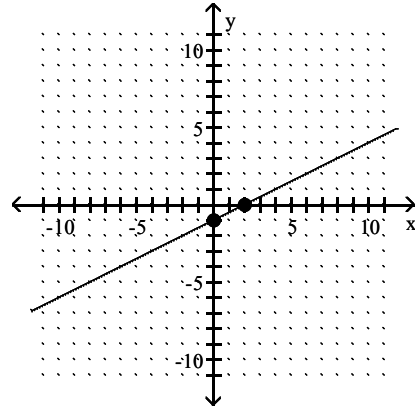
B)



C)



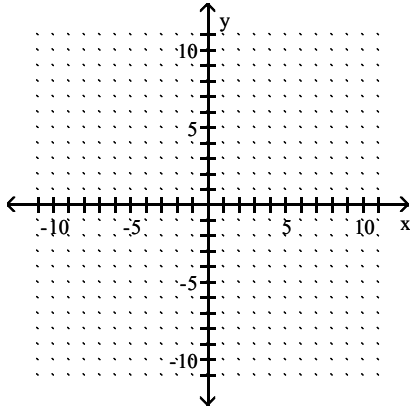
D)



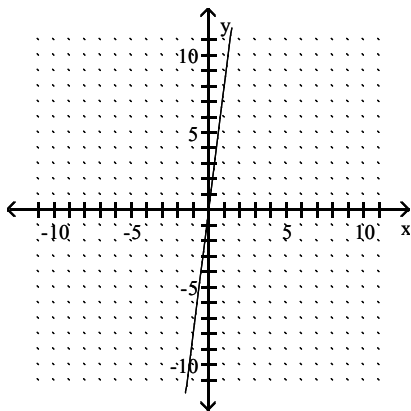
Graph the linear equation.

10) $y = 8$

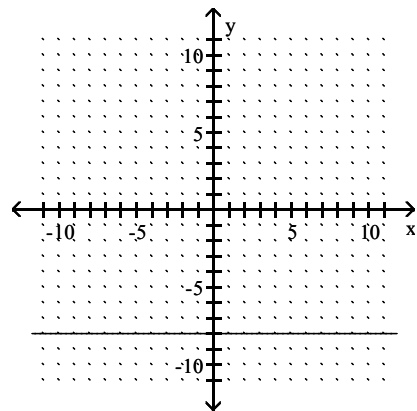
10) _____



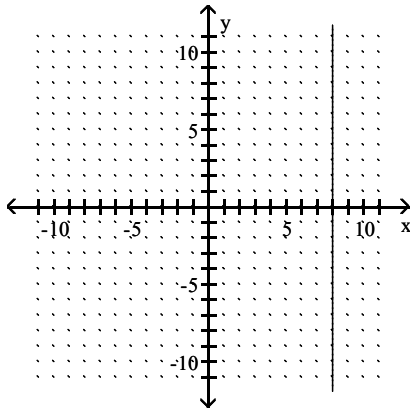
A)



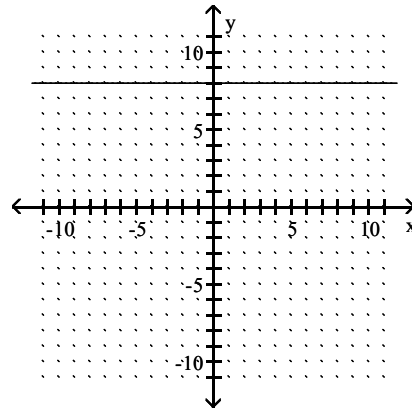
B)



C)



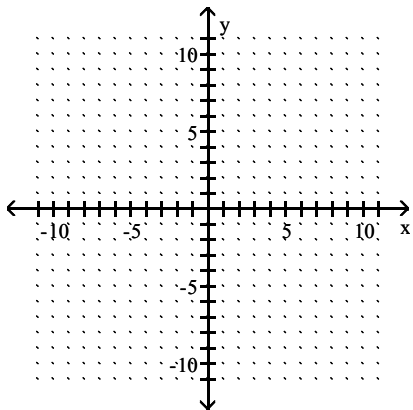
D)



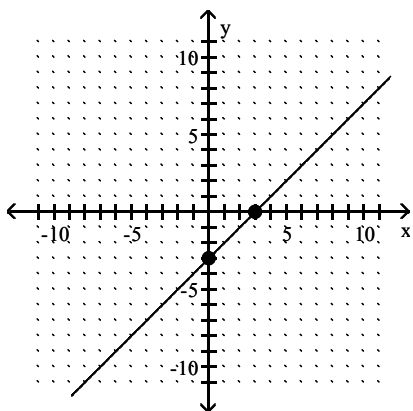
Graph the linear equation by finding and plotting its intercepts.

11) $y = 3x$

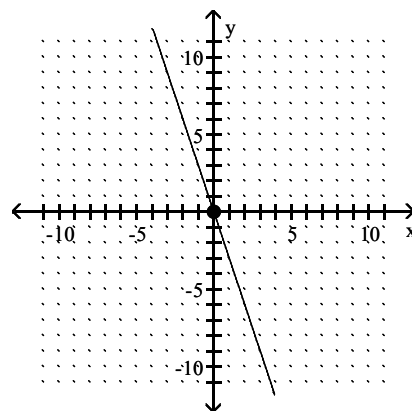
11) _____



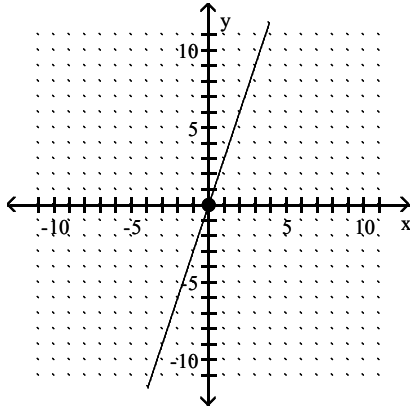
A)



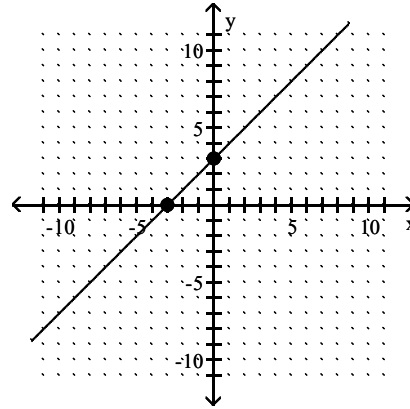
B)



C)



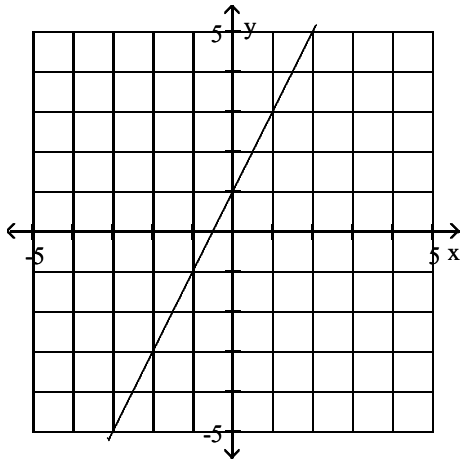
D)



Determine the slope by using the slope formula and any two points on the line.

12)

12) _____



A) $m = -2$

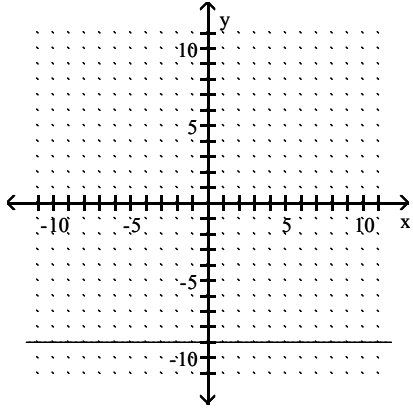
B) $m = 1$

C) $m = 2$

D) $m = -1$

Find the slope of the line if it exists.

13)

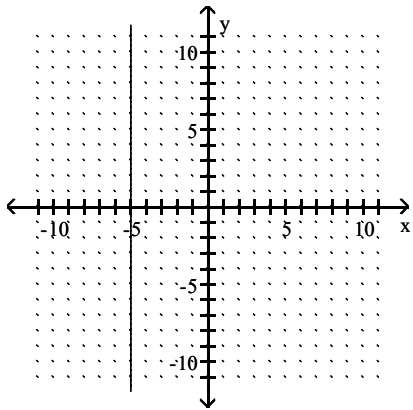


13) _____

- A) undefined slope
- C) 2

- B) 0
- D) -9

14)



14) _____

- A) undefined slope
- C) 5

- B) 0
- D) -5

Find the slope of the line that passes through the given points.

15) (4, 1) and (15, 8).

15) _____

A) $-\frac{11}{7}$

B) $\frac{7}{11}$

C) $-\frac{7}{11}$

D) $\frac{11}{7}$

16) (3, -3) and (5, -9).

16) _____

A) $m = \frac{1}{3}$

B) $m = -3$

C) $m = 3$

D) $m = -\frac{1}{3}$

17) (-2, 8) and (-6, 8).

17) _____

A) undefined

B) $m = -4$

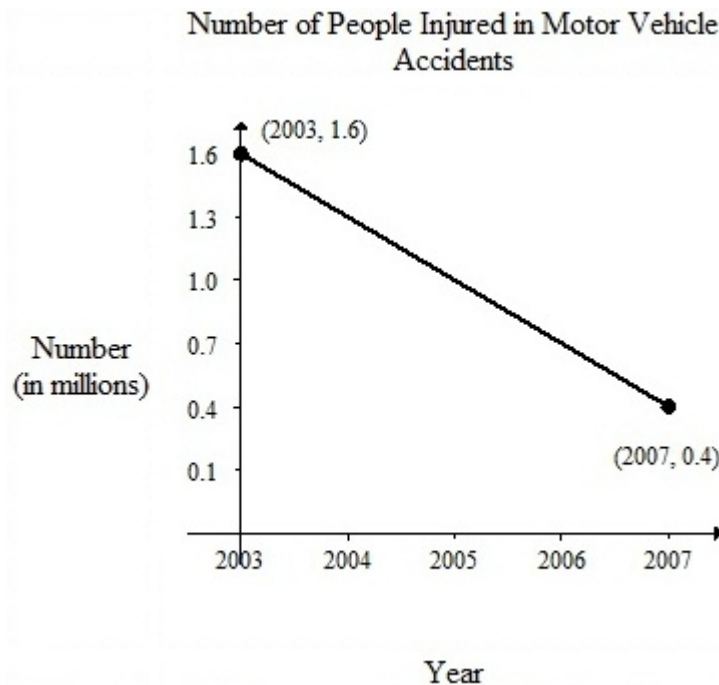
C) $m = 1.4$

D) $m = 0$

Solve the problem.

18) The graph shows the approximate number of people in a certain area injured in a motor vehicle from 2003 to 2007.

18) _____



Find the slope of the line segment and explain what it means in the context of the problem.

A) $m = -0.3$; the number of injuries is increasing by about 0.3 million per year.

B) $m = -0.3$; the number of injuries is decreasing by about 0.3 million per year.

C) $m = 0.3$; the number of injuries is increasing by about 0.3 million per year.

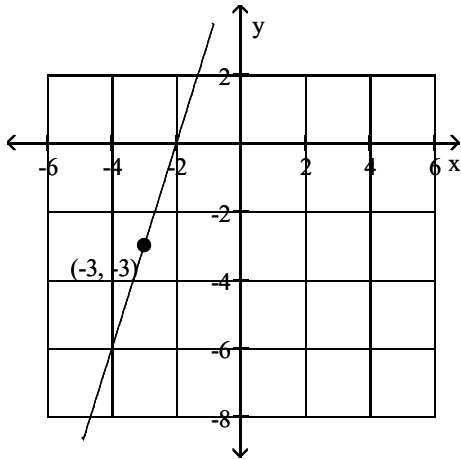
D) $m = 0.3$; the number of injuries is decreasing by about 0.3 million per year.

Graph the line containing the given point and with the given slope.

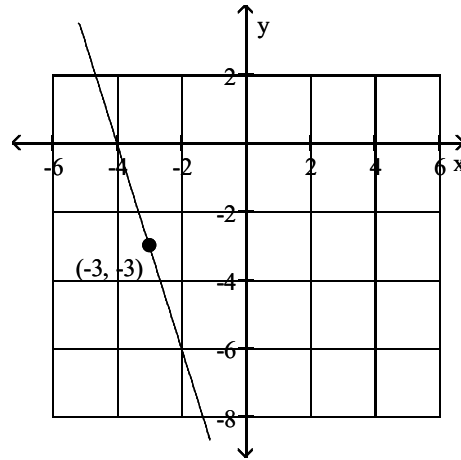
19) $(-3, -3); m = 3$

19) _____

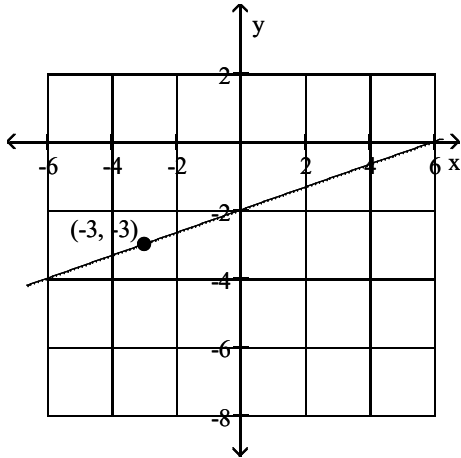
A)



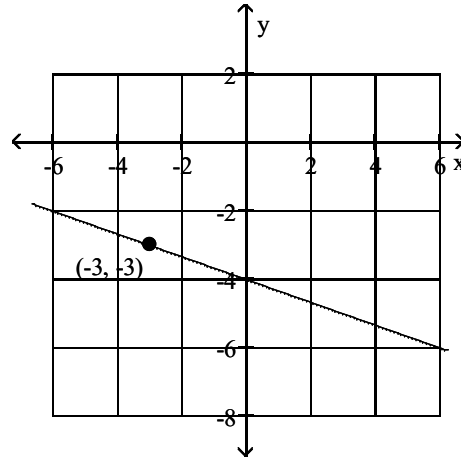
B)



C)



D)



Find the slope and y-intercept.

20) $y = \frac{5}{4}x - 3$

20) _____

A) $m = \frac{5}{4}; y\text{-int: } (0, -3)$

B) $m = \frac{5}{4}; y\text{-int: } (0, 3)$

C) $m = -3; y\text{-int: } \left(0, \frac{5}{4}\right)$

D) $m = 3; y\text{-int: } \left(0, \frac{5}{4}\right)$

21) $y = -12x - 33$

21) _____

- A) slope: -12
y-intercept: (0, -33)
- C) slope: 12
y-intercept: (0, -33)

- B) slope: 12
y-intercept: (0, 33)
- D) slope: -12
y-intercept: (0, 33)

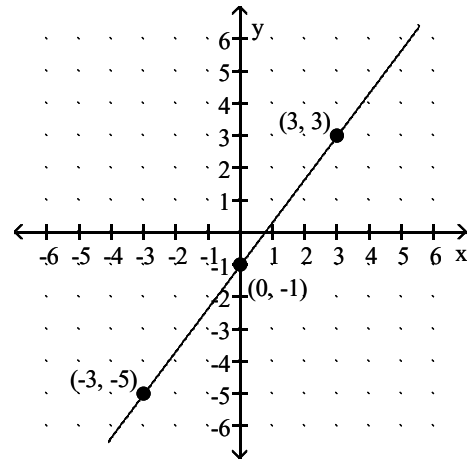
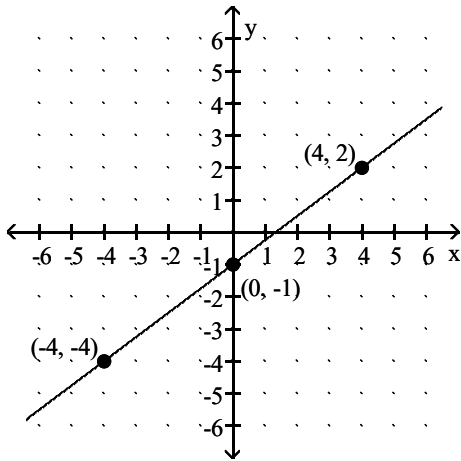
Put the equation in slope-intercept form and graph.

22) $4x - 3y = 3$

22) _____

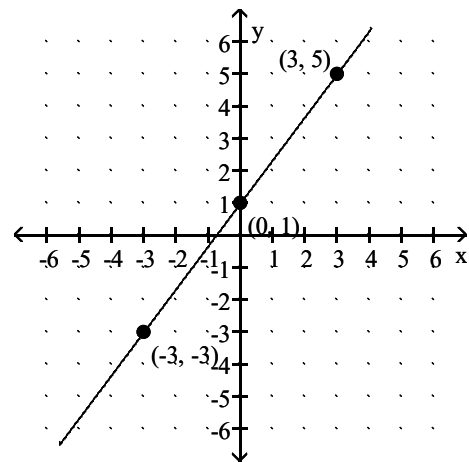
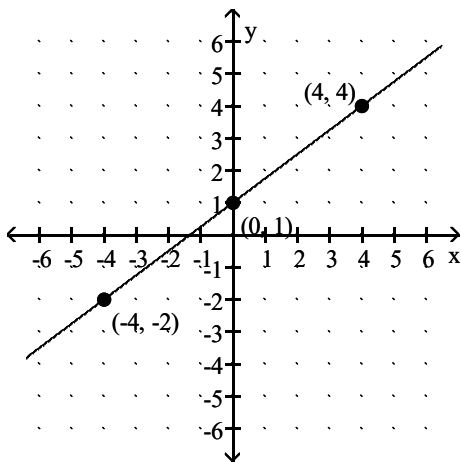
A) $y = \frac{3}{4}x - 1$

B) $y = \frac{4}{3}x - 1$



C) $y = \frac{4}{3}x + 1$

D) $y = \frac{4}{3}x + 1$



Use the point-slope formula to write an equation of the line with the given slope that passes through the given point. Write your answer in *slope-intercept* form.

23) slope = $-\frac{1}{4}$; y-intercept $\left(0, \frac{8}{7}\right)$. 23) _____

A) $x = -\frac{1}{4}y + \frac{8}{7}$

B) $y = -\frac{1}{4}\left(x - \frac{8}{7}\right)$

C) $y = -\frac{1}{4}x + \frac{8}{7}$

D) $y = -\frac{1}{4}\left(x + \frac{8}{7}\right)$

24) slope = 12; through $(-1, 4)$ 24) _____

A) $y = 12x + 4$

B) $y = -3x + 12$

C) $y = 12x - 1$

D) $y = 12x + 16$

Write the *slope-intercept* form for the equation of the line with the given slope that passes through the given point.

25) slope = $\frac{5}{2}$; through $(4, 3)$ 25) _____

A) $5x - 2y = 14$

B) $5x + 2y = 17$

C) $y = \frac{5}{2}x - 7$

D) $y = \frac{5}{2}x - 1$

Write the *slope-intercept* form for the equation of the line that passes through the given points.

26) through $(-14, -18)$ and $(21, 12)$ 26) _____

A) $y = \frac{6}{7}x - 6$

B) $y = \frac{7}{6}x - \frac{5}{3}$

C) $y = -\frac{6}{7}x + 30$

D) $y = \frac{7}{6}x - \frac{25}{2}$

Use the point-slope formula to write an equation of the line with that passes through the given points.

Write your answer in *slope-intercept* form.

27) through (2.4, 4.7) and (2.5, -0.8)

27) _____

A) $y = -55x + 136.7$

B) $y = 55x - 127.3$

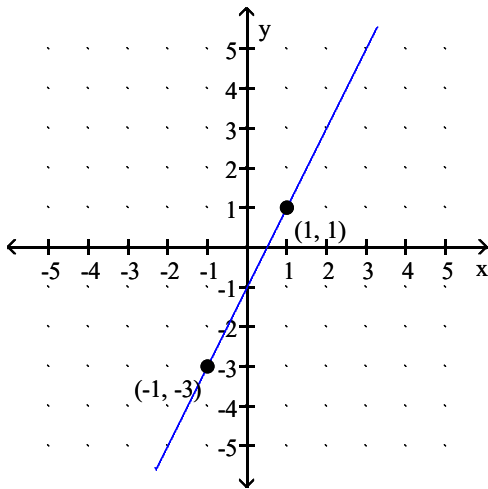
C) $y = -0.02x + 4.748$

D) $y = 0.02x + 4.652$

Write the *slope-intercept* form for the equation of the line that passes through the given points.

28)

28) _____



A) $y = 2x - 1$

B) $y = -2x - 4$

C) $y = -x - 3$

D) $y = x + 1$

Find an equation of the line.

29) Vertical line through (2, -10)

29) _____

A) $x = -10$

B) $y = 2$

C) $x = 2$

D) $y = -10$

30) Horizontal line through (-10, 1)

30) _____

A) $x = -10$

B) $y = 1$

C) $x = 1$

D) $y = -10$

Answer Key

Testname: MATH-0361 TEST 3 REVIEW

- 1) A
- 2) D
- 3) A
- 4) C
- 5) D
- 6) C
- 7) D
- 8) A
- 9) D
- 10) D
- 11) C
- 12) C
- 13) B
- 14) A
- 15) B
- 16) B
- 17) D
- 18) B
- 19) A
- 20) A
- 21) A
- 22) B
- 23) C
- 24) D
- 25) C
- 26) A
- 27) A
- 28) A
- 29) C
- 30) B