

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)

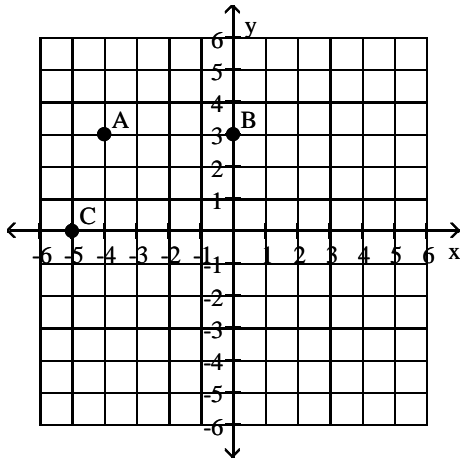
$x$	$y$
-36	0
0	4
-72	-4

Plot the ordered pairs.

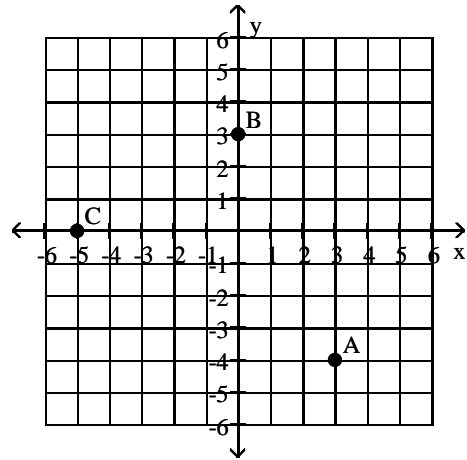
4)  $A: (-4, 3); B: (3, 0); C: (0, -5)$

4) \_\_\_\_\_

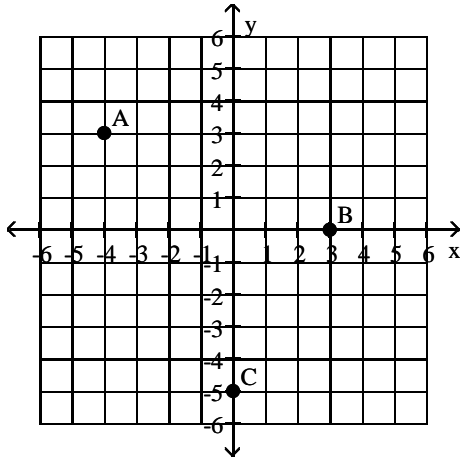
A)



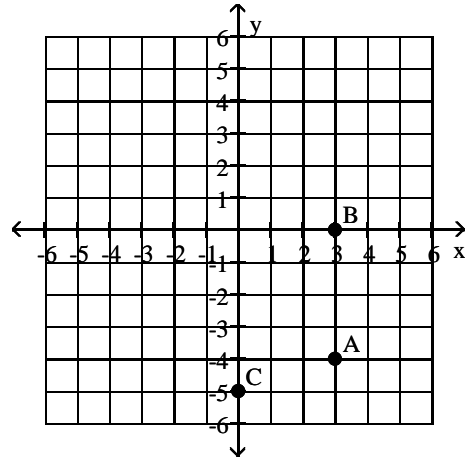
B)



C)



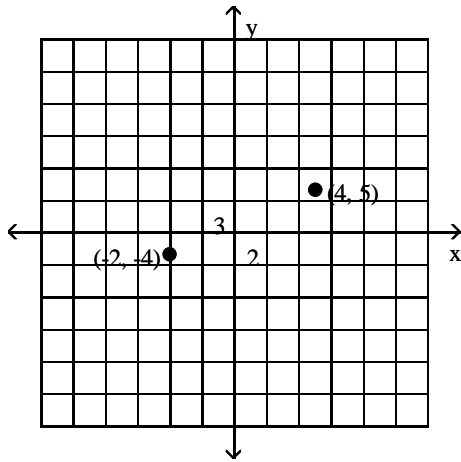
D)



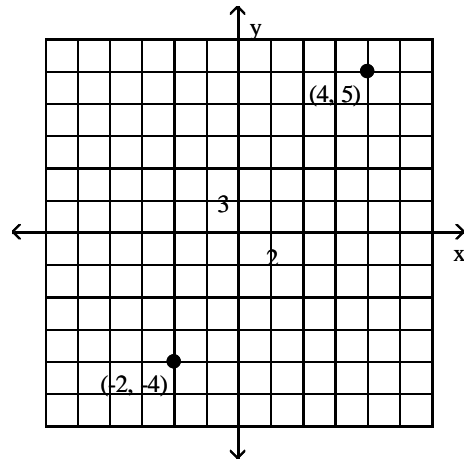
Answer the question.

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

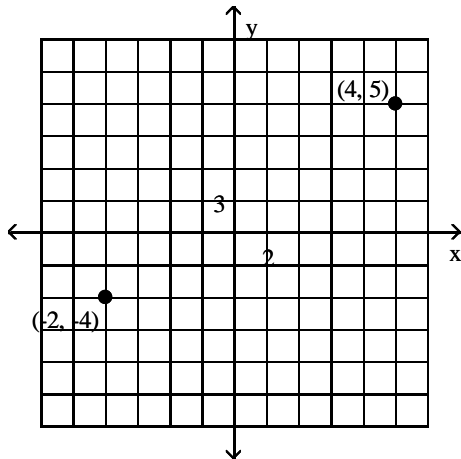
A)



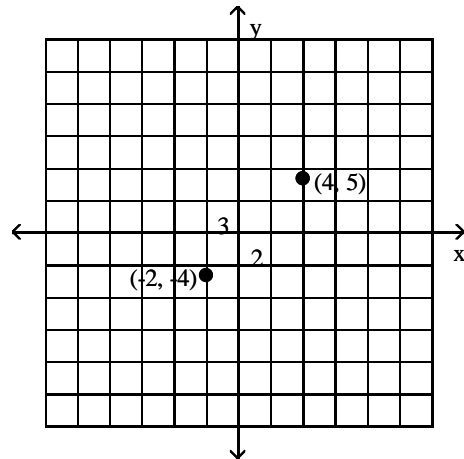
B)



C)



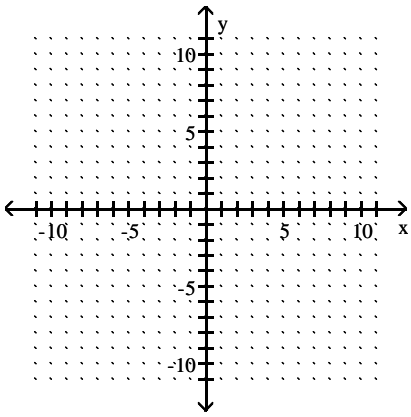
D)



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

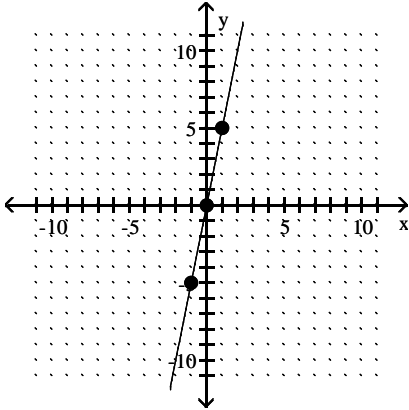
6)  $y = 4x + 5$  6) \_\_\_\_\_

x	y
0	
1	
-1	



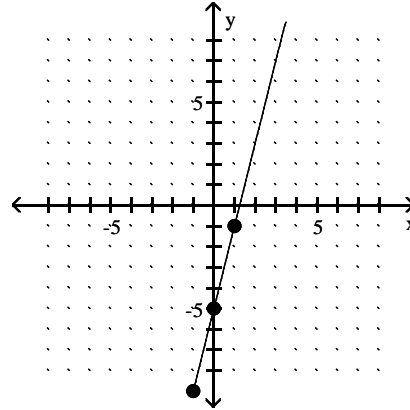
A)

x	y
0	0
1	5
-1	-5



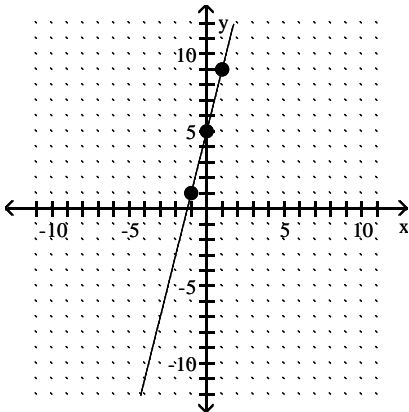
B)

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



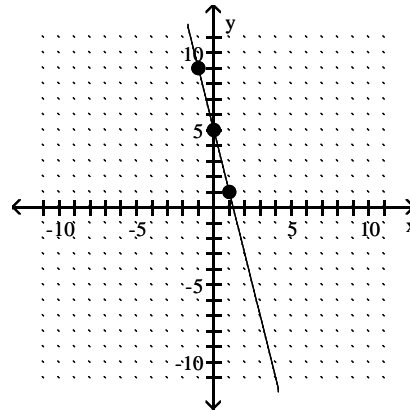
C)

x	y
0	5
1	9
-1	1



D)

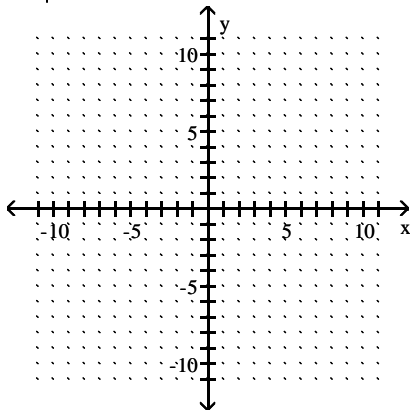
x	y
0	5
1	1
-1	9



7)  $y = -2x + 6$

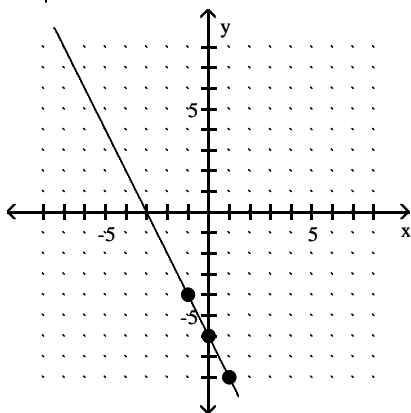
7) \_\_\_\_\_

x	y
0	
1	
-1	



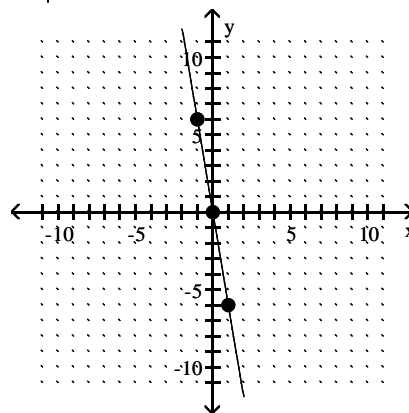
A)

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



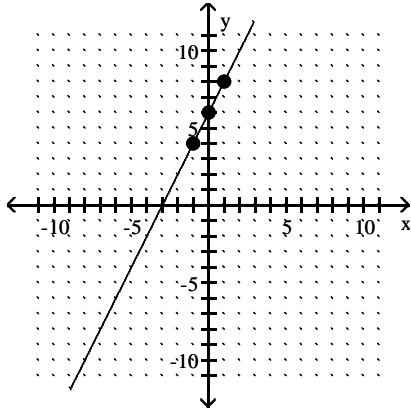
B)

x	y
0	0
1	-6
-1	6



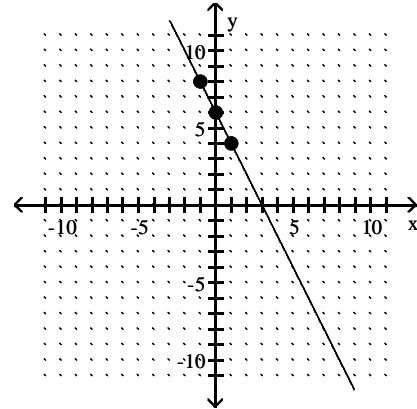
C)

x	y
0	6
1	8
-1	4



D)

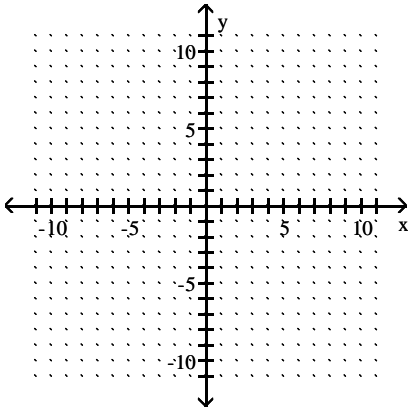
x	y
0	6
1	4
-1	8



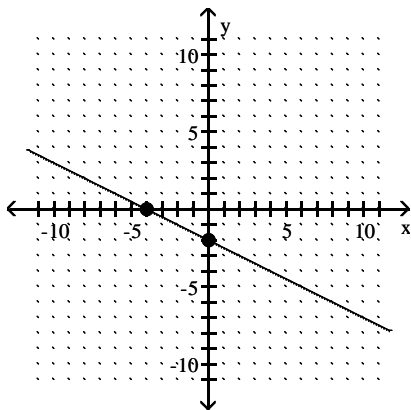
Graph the linear equation by finding and plotting its intercepts.

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

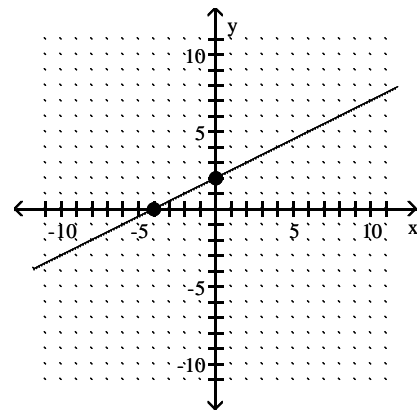
8) \_\_\_\_\_



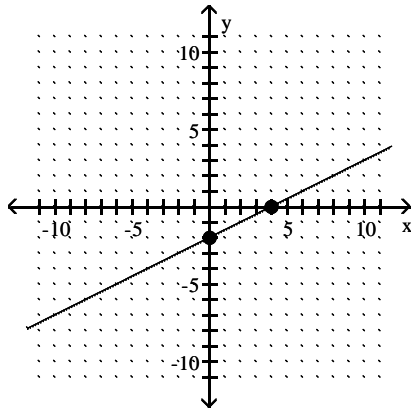
A)



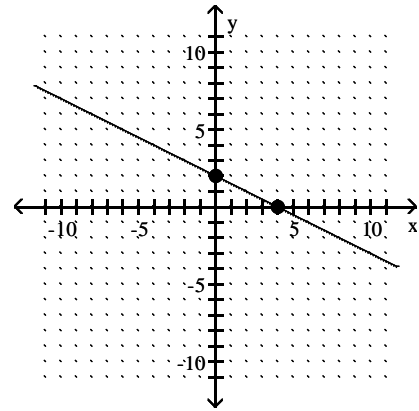
B)



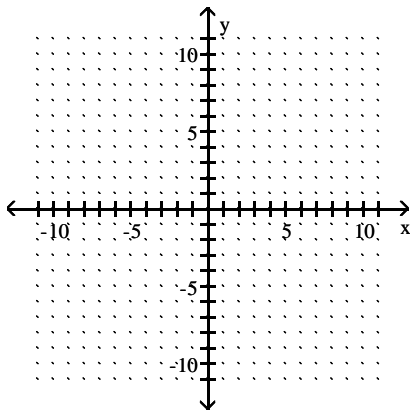
C)



D)

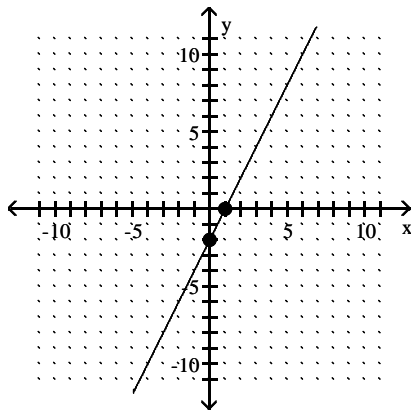


9)  $-x + 2y = -2$

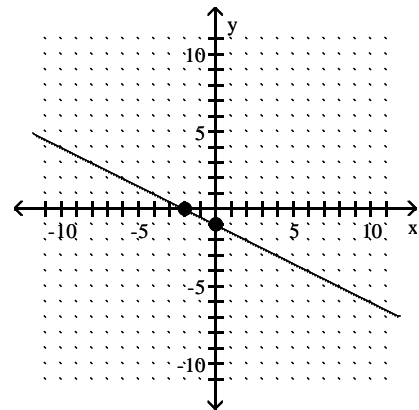


9) \_\_\_\_\_

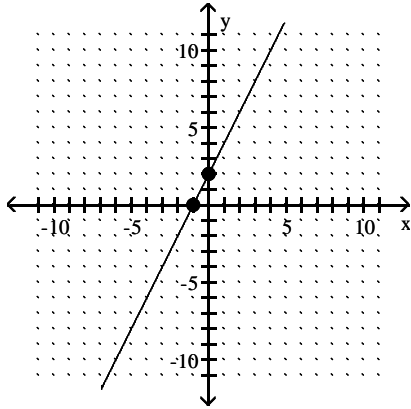
A)



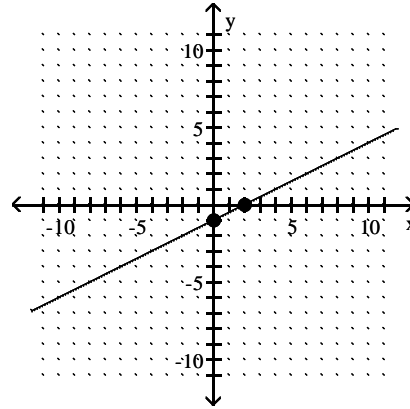
B)



C)



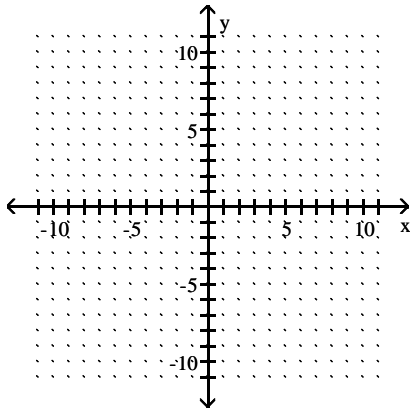
D)



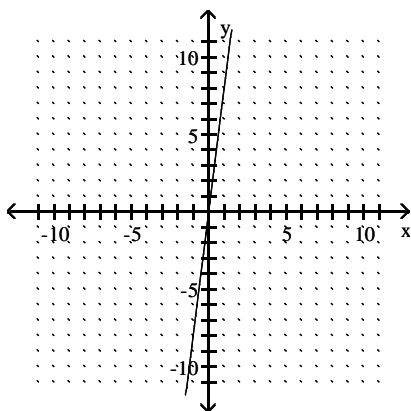
**Graph the linear equation.**

10)  $y = 8$

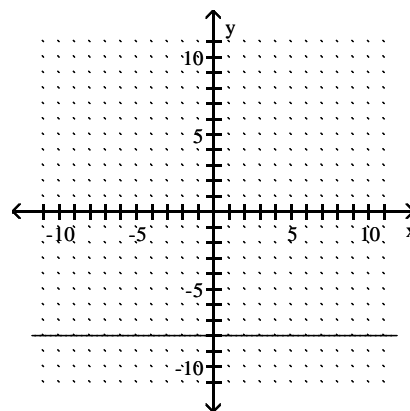
10) \_\_\_\_\_



A)

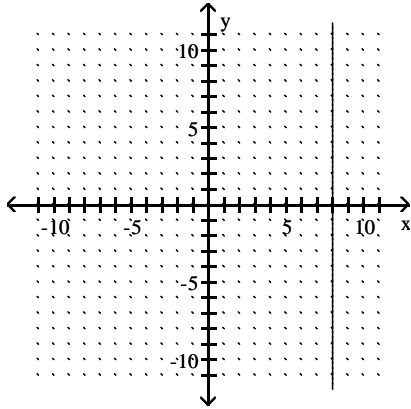


B)

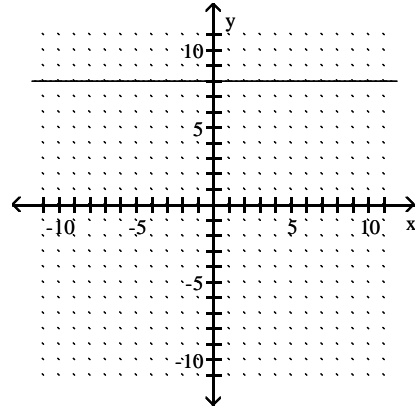




C)



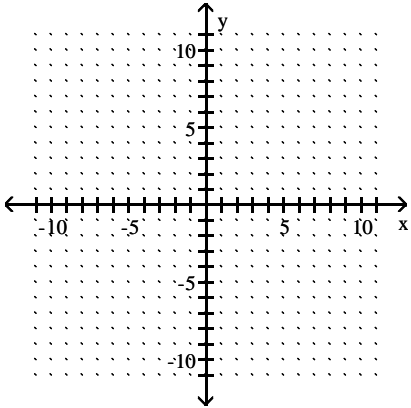
D)



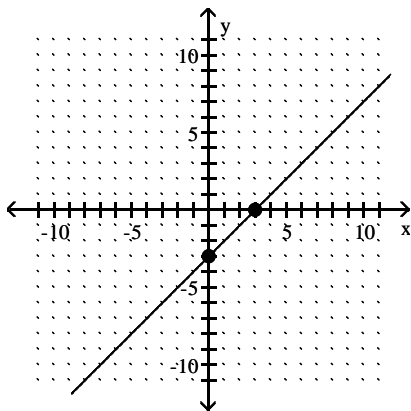
Graph the linear equation by finding and plotting its intercepts.

11)  $y = 3x$

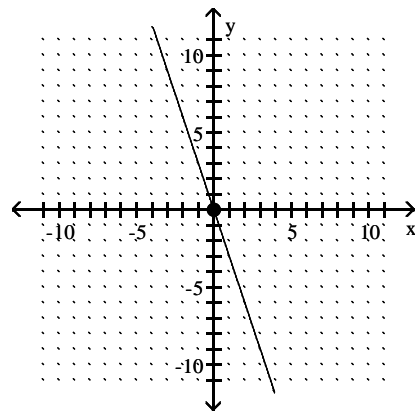
11) \_\_\_\_\_



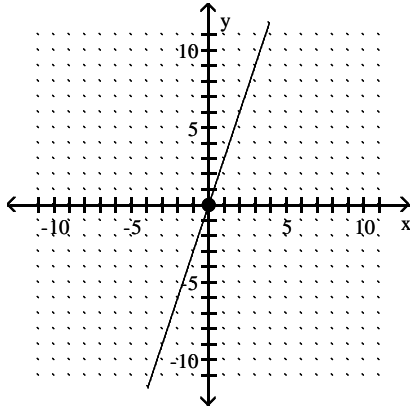
A)



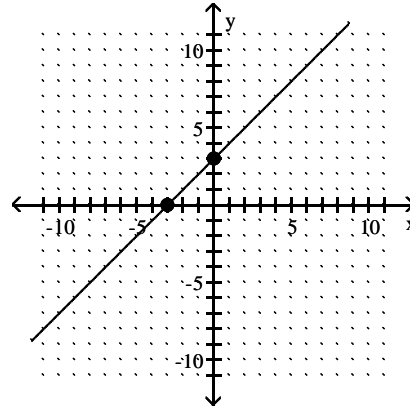
B)



C)



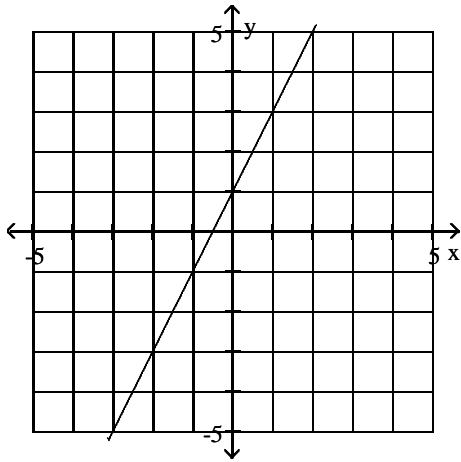
D)



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

12)

12) \_\_\_\_\_



A)  $m = -2$

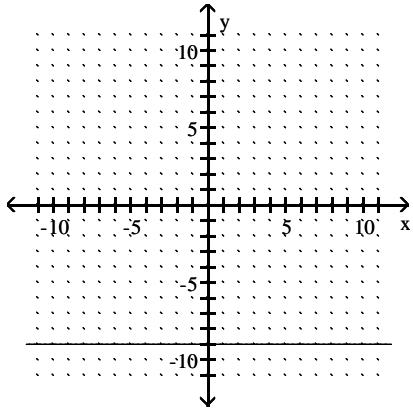
B)  $m = 1$

C)  $m = 2$

D)  $m = -1$

Find the slope of the line if it exists.

13)

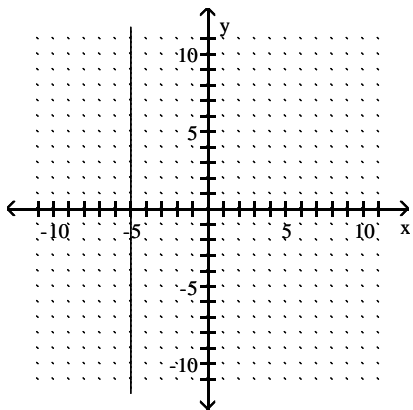


13) \_\_\_\_\_

- 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)  $m = 1.4$

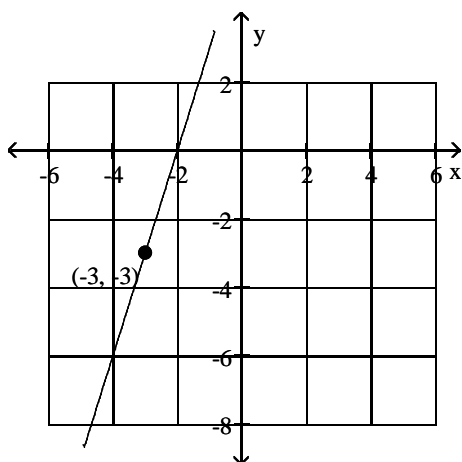
D)  $m = 0$

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

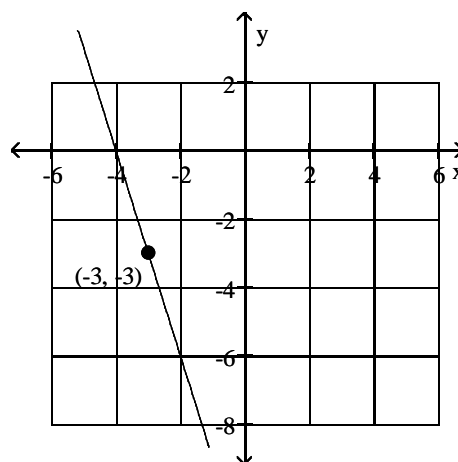
18) (-3, -3);  $m = 3$

18) \_\_\_\_\_

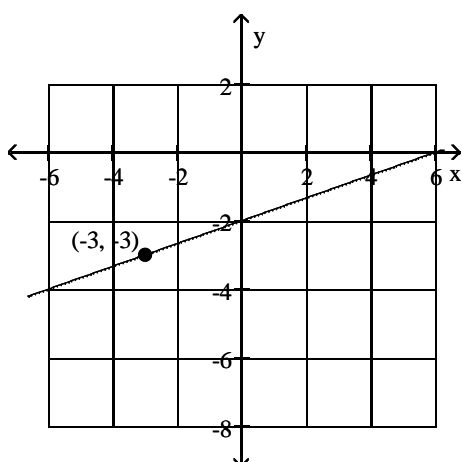
A)



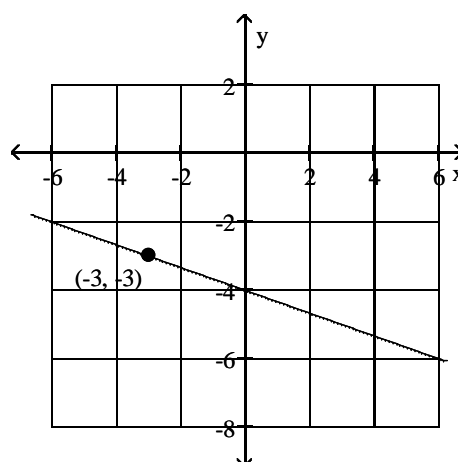
B)



C)



D)





Find the slope and y-intercept.

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

19) \_\_\_\_\_

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

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

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

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

20)  $y = -12x - 33$

20) \_\_\_\_\_

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

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

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

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

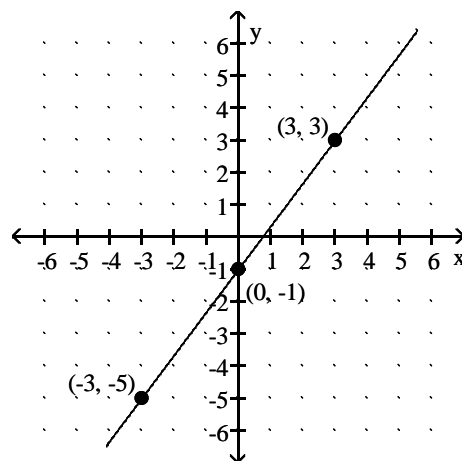
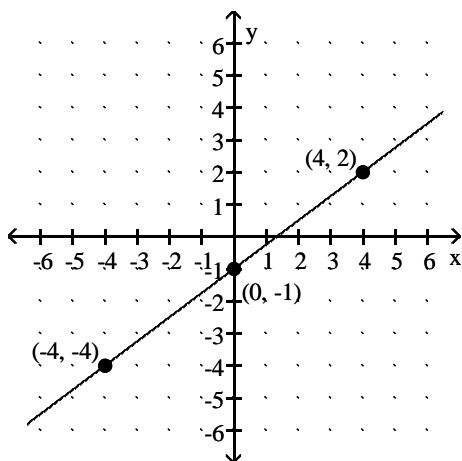
Put the equation in slope-intercept form and graph.

21)  $4x - 3y = 3$

21) \_\_\_\_\_

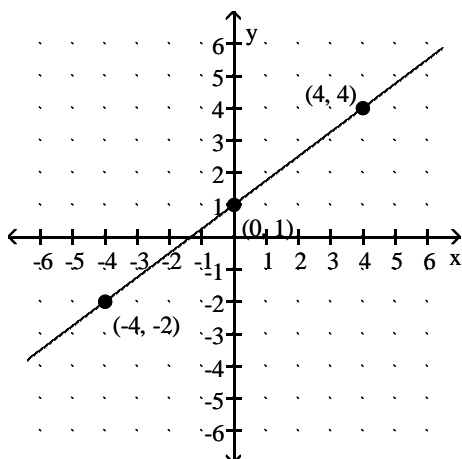
A)  $y = \frac{3}{4}x - 1$

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

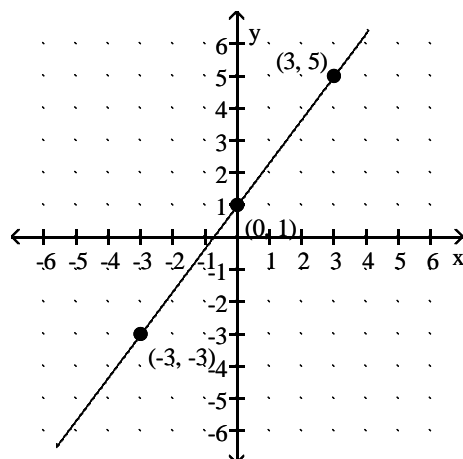




C)  $y = \frac{4}{3}x + 1$



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.

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

22) \_\_\_\_\_

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

Determine whether the two lines are parallel, perpendicular, or neither.

23)  $14x + 2y = 20$ ;  $3y = -21x + 50$

23) \_\_\_\_\_

A) neither

B) perpendicular

C) parallel



24)  $y = -13x + 39$ ;  $y = \frac{1}{13}x - 50$

24) \_\_\_\_\_

A) perpendicular

B) parallel

C) neither

25)  $y = -2x + 6$ ;  $y = 2x - 36$

25) \_\_\_\_\_

A) neither

B) perpendicular

C) parallel

26) Lines  $L_1$  and  $L_2$  contain the given points.

26) \_\_\_\_\_

$L_1$ : (-3, -4), (5, 4)

$L_2$ : (-1, 1), (2, 4)

A) perpendicular

B) neither

C) parallel

**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.**

27) slope = 12; through (-1,4)

27) \_\_\_\_\_

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.**

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

28) \_\_\_\_\_

A)  $5x - 2y = 14$

B)  $5x + 2y = 17$

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

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

**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) A
- 19) A
- 20) A
- 21) B
- 22) C
- 23) C
- 24) A
- 25) A
- 26) C
- 27) D
- 28) C
- 29) C
- 30) B