# TEST BANK

INTERMEDIATE

Algebra

11TH EDITION

Marvin L. BITTINGER

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.
**Plot the ordered pairs on the rectangular coordinate system provided.**

1) A(2, 4), B(-1, 1)   1) _____
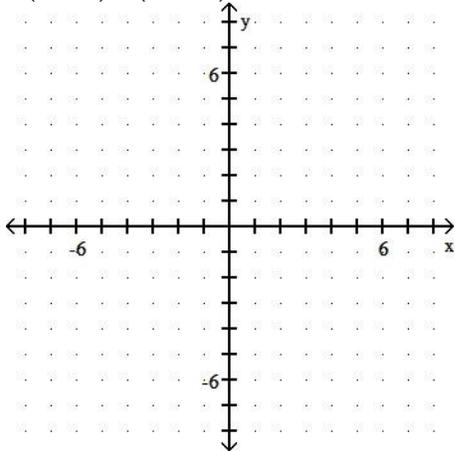
Answer:
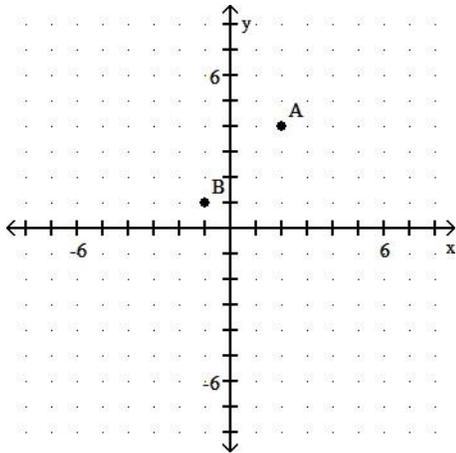
2) A(1, -1), B(-6, 2)   2) _____
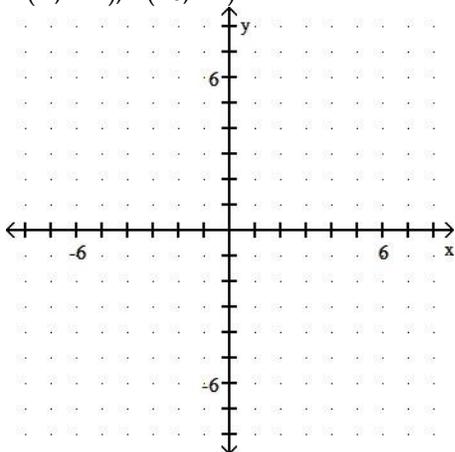
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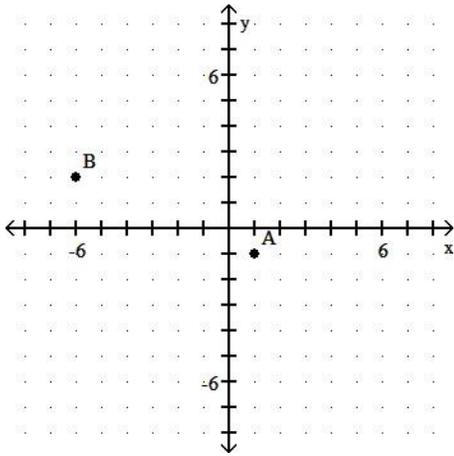
3) A(-2,   -5), B(-6,   5)   3) _____


Answer:

4) A(3,   3), B(4,   -6)

4)
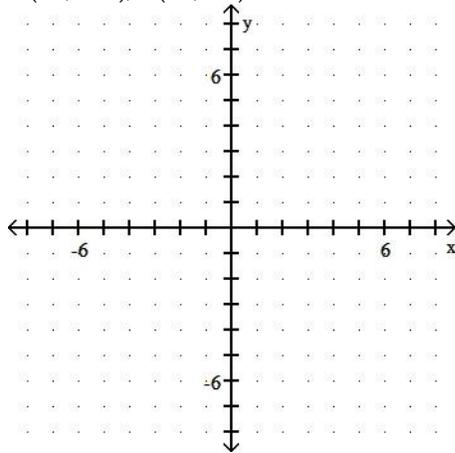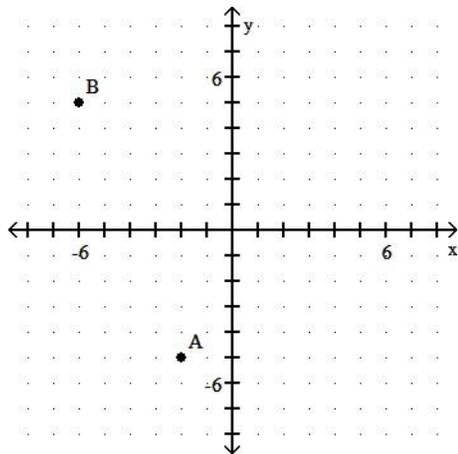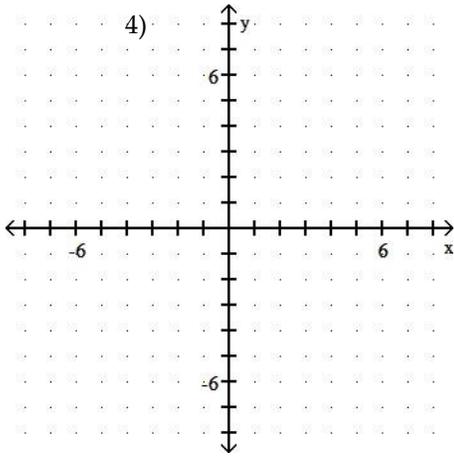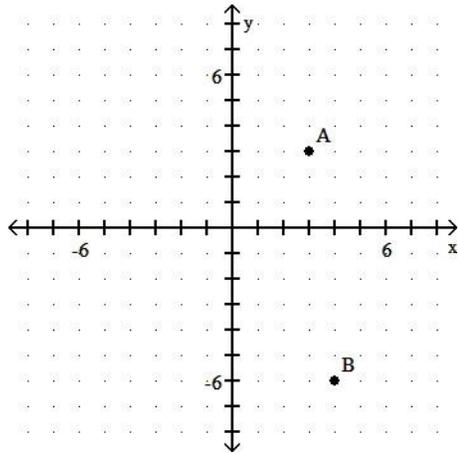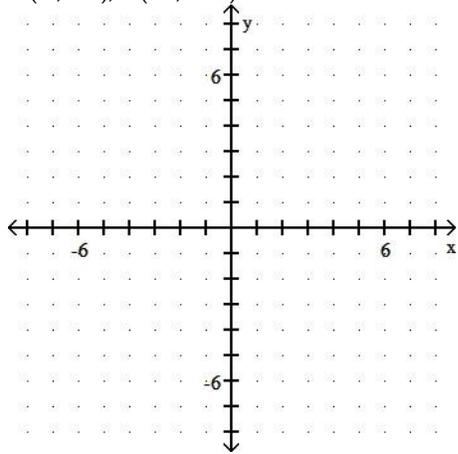
Answer:

5) A(2, 2), B(-6, -3)   5) _____

Answer:
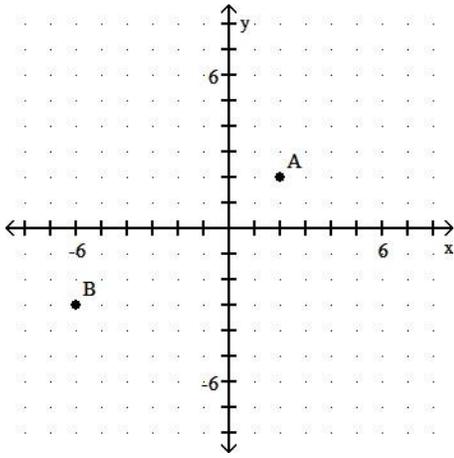
6) $A\left(-\dfrac{3}{2}, -6\right)$, B(-4, 6)

6) _____
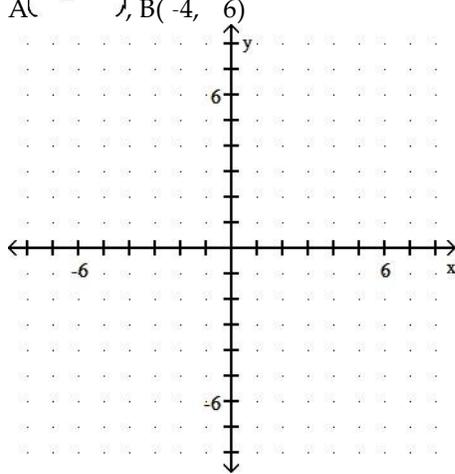
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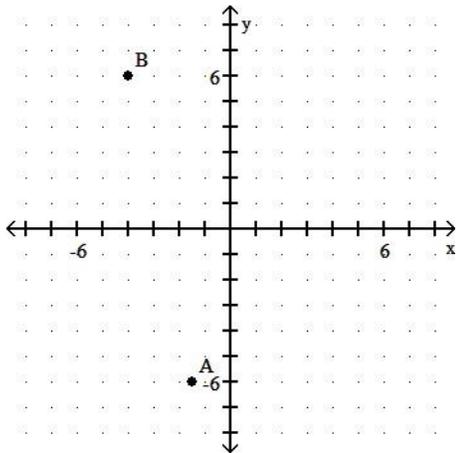
7) A(0, 4), B (0, -5)
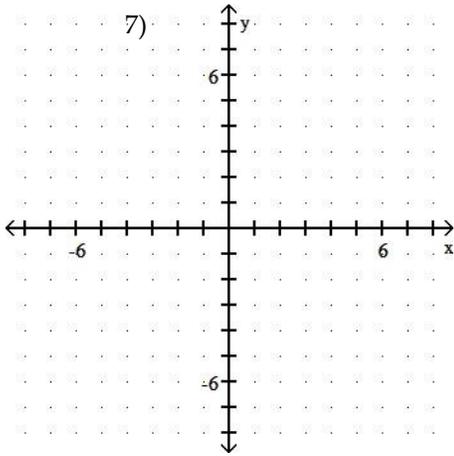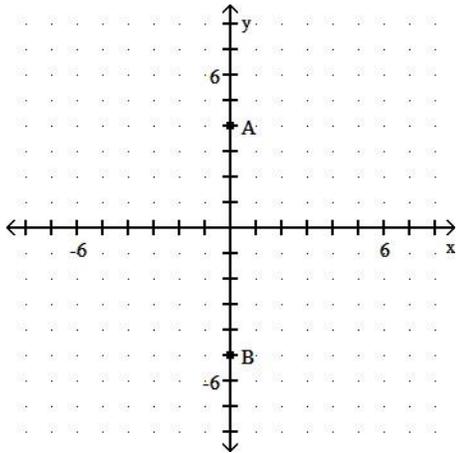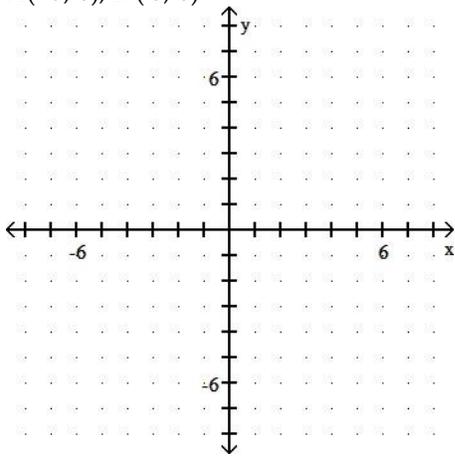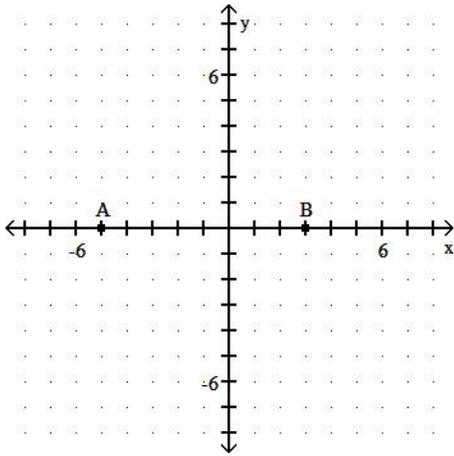
7)

Answer:

8) A(-5, 0), B (3, 0)

8) _____

Answer:

MULTIPLE CHOICE.   Choose the one alternative that best completes the statement or answers the question.
Determine whether the given point is a solution of the equation.

9) x + y =   8; (6,   2)   9) _____
    A) No   B) Yes
    Answer: B

10) x + y =   16; (8,   2)   10) _____
    A) No   B) Yes
    Answer: A

11) x - y =   36; (6,   3)   11) _____
    A) Yes   B) No
    Answer: B

12) 2x + y =   11; (3,   5)   12) _____
    A) No   B) Yes
    Answer: B

13) 4x   + 5y =   37; (3,   5)   13) _____
    A) No   B) Yes
    Answer: B

14) 5x   - 2y =   26; (4,   3)   14) _____
    A) Yes   B) No
    Answer: B

15) -11x   + 6y =   50; (-4,   1)   15) _____
    A) Yes   B) No
    Answer: A

16) y =   -2x; (2,   -4)   16) _____
    A) No   B) Yes
    Answer: B

SHORT ANSWER.   Write the word or phrase that best completes each statement or answers the question.
Show that the two ordered pairs are solutions to the given equation. Then use the graph of the two points to
determine another solution. Answers may vary.

17) y = x -   2; (7,   5), (-2,   -4)

17)
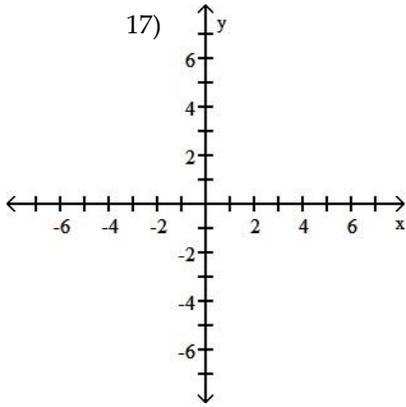
Answer: Show that (7, 5) is a solution:

      $y = x - 2$

      $5 =?$ $7 - 2$

      $5 =?$ 5 TRUE

Show that (-2, -4) is a solution:

      $y = x - 2$

      $-4 =?$ $-2 - 2$

      $-4 =?$ -4 TRUE

Coordinates of the additional solution may vary but should satisfy $y = x - 2$.

18) $y = x + 1$; (2, 3), (-4, -3)   18) _____
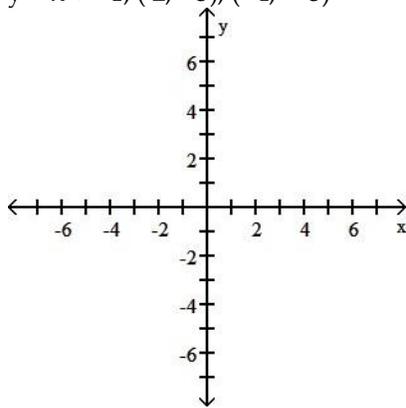
Answer: Show that (2, 3) is a solution:

      $y = x + 1$

      $3 =?$ $2 + 1$

      $3 =?$ 3 TRUE

Show that (-4, -3) is a solution:

      $y = x + 1$

      $-3 =?$ $-4 + 1$

      $-3 =?$ -3 TRUE

Coordinates of the additional solution may vary but should satisfy $y = x + 1$.

19)

$y = \dfrac{1}{2}x + 3$; (4, 5), (-6, 0)

19)
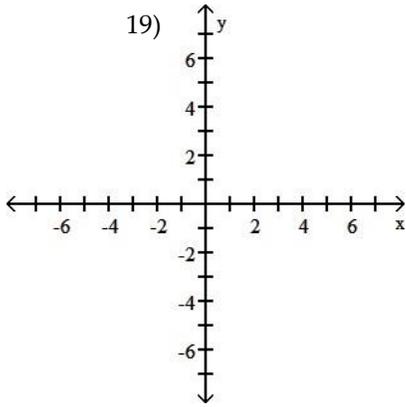
Answer: Show that (4,   5) is a solution:

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

$5 =?\ \frac{1}{2}(4) +   3$
$5 =?\ 2 +   3$
$5 =?\ 5$ TRUE

Show that (-6,   0) is a solution:

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

$0 =?\ \frac{1}{2}(-6) +   3$
$0 =?\ -3 +   3$
$0 =?\ 0$ TRUE

Coordinates of the additional solution may vary but should satisfy $y = \frac{1}{2}x + 3.$

20) $y = \frac{1}{2}x -   3;\ (2,   -2), (-4,   -5)$

20) _____
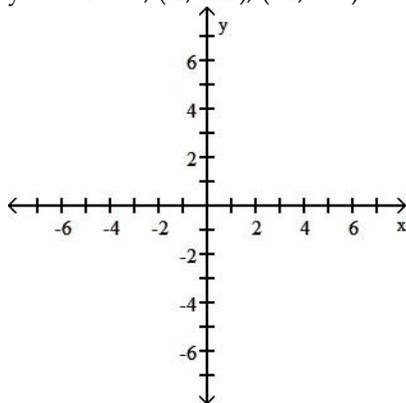
Answer: Show that (2,   -2) is a solution:

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

$-2 =?\ \frac{1}{2}(2) -   3$
$-2 =?\ 1 -   3$
$-2 =?\ -2$ TRUE

Show that (-4,   -5) is a solution:

$y = \dfrac{1}{2}x - 3$

-5 =? -2 - 3

-5 =? -5   TRUE

-5 =? $\dfrac{1}{2}$(-4) - 3   Coordinates of the additional solution may vary but should satisfy $y = \dfrac{1}{2}x - 3.$
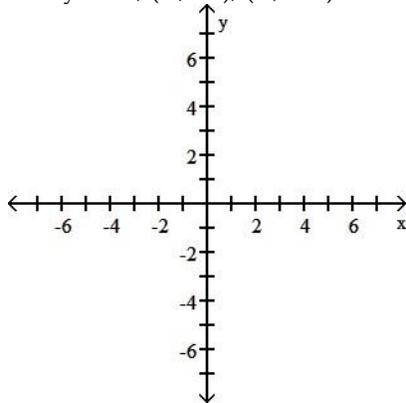
21) 2x + y = 7; (2, 3), (6, -5)   21) _____

Answer: Show that (2, 3) is a solution:

2x + y = 7

2(2) + 3   =? 7

4 + 3 =? 7

7   =? 7   TRUE

Show that (6, -5) is a solution:

2x + y = 7

2(6) + (-5)   =? 7

12 + (-5)   =? 7

7   =? 7   TRUE

Coordinates of the additional solution may vary but should satisfy $2x + y = 7.$

22) x + 2y = 8; (4, 2), (-6, 7)   22) _____
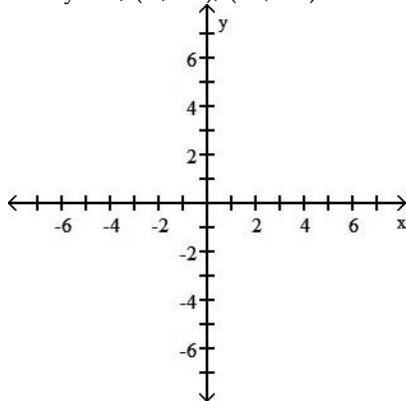
Answer: Show that (4, 2) is a solution:

x + 2y   = 8

4 + 2(2)   =? 8

4 + 4 =? 8

8   =? 8   TRUE

Show that (-6, 7) is a solution:

x + 2y = 8

-6 + 2(7)   =? 8

-6 + 14   =? 8

8   =? 8   TRUE

Coordinates of the additional solution may vary but should satisfy $x + 2y = 8.$

23) $6x - 2y = 6;\ (0,\ -3), (3,\ 6)$ 23) _____

Answer: Show that $(0,\ -3)$ is a solution:

$6x - 2y = 6$

$6(0) - 2(-3) \quad =?\quad 6$

$0 - (-6) =?\quad 6$
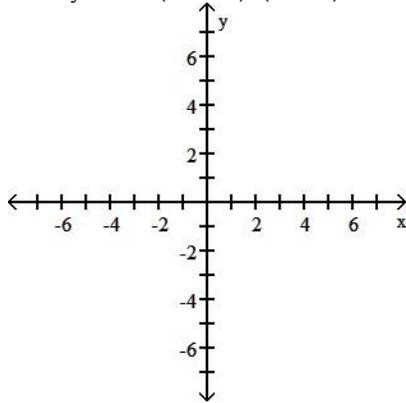
$6 \quad\quad =?\quad 6\quad$ TRUE

Show that $(3,\ 6)$ is a solution:

$6x - 2y = 6$

$6(3) - 2(6) \quad =?\quad 6$

$18 - 12 \quad\quad =?\quad 6$

$6 \quad\quad =?\quad 6\quad$ TRUE

Coordinates of the additional solution may vary but should satisfy $6x - 2y = 6.$

24) $3x - 3y = 9;\ (0,\ -3), (2,\ -1)$ 24) _____
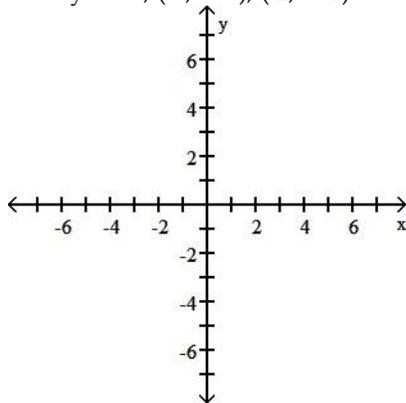
Answer: Show that $(0,\ -3)$ is a solution:

$3x - 3y = 9$

$3(0) - 3(-3) \quad =?\quad 9$

$0 + 9 =?\quad 9$

$9 \quad\quad =?\quad 9\quad$ TRUE

Show that $(2,\ -1)$ is a solution:

$3x - 3y = 9$

$3(2) - 3(-1) \quad =?\quad 9$

$6 - (-3) =?\quad 9$

$9 \quad\quad =?\quad 9\quad$ TRUE

Coordinates of the additional solution may vary but should satisfy $3x - 3y = 9.$

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

Graph the linear equation.

25) $y = 2x + 2$

25) _____
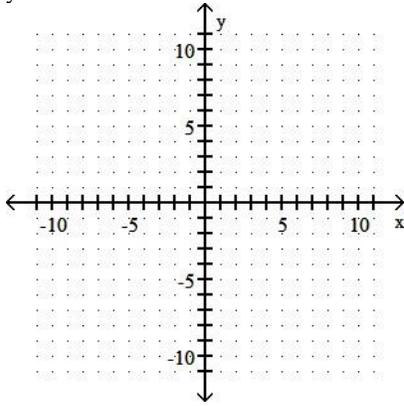
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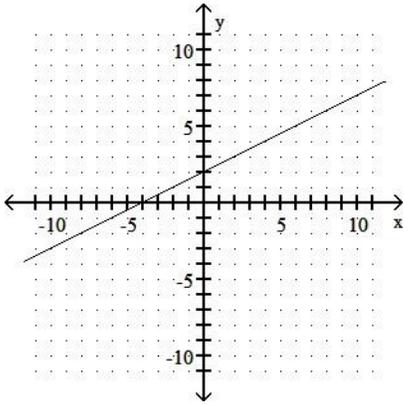
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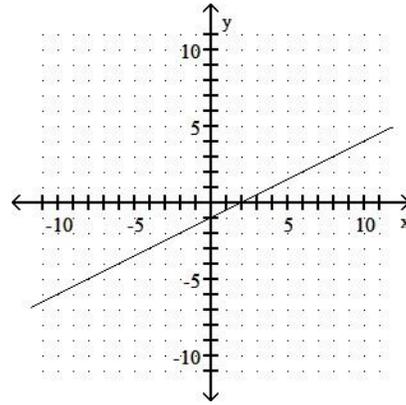
C)
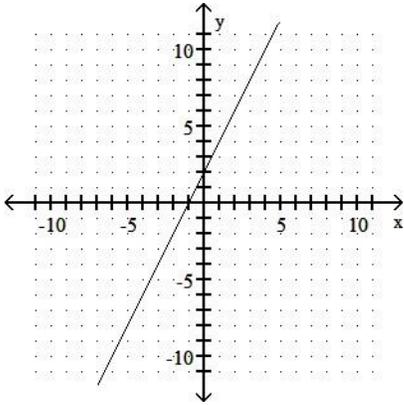
D)
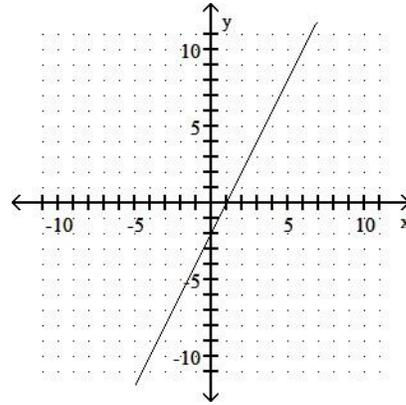
Answer: C

26) $y = \dfrac{4}{3}x - 1$

26) _____
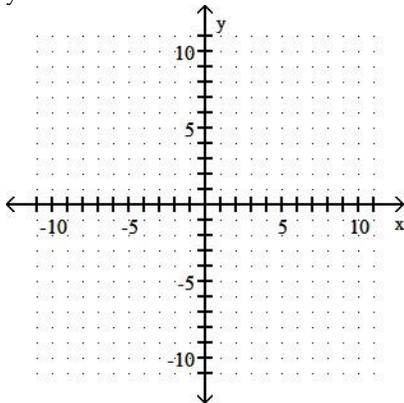
A)
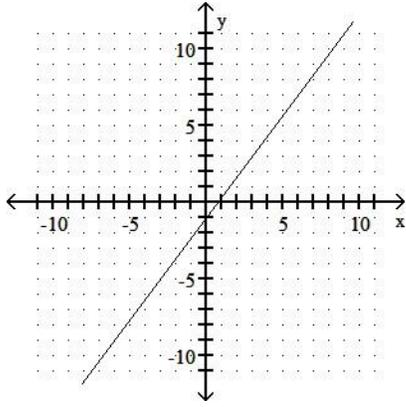
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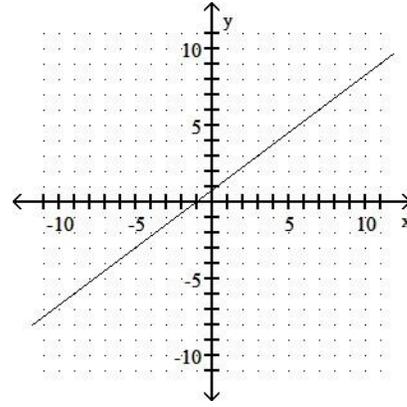
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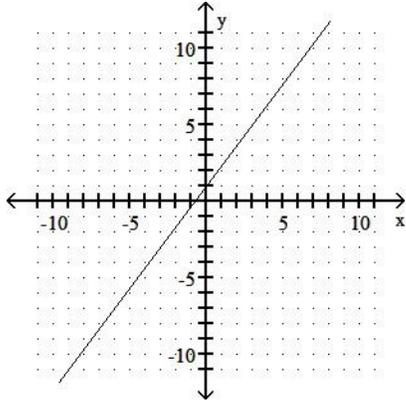
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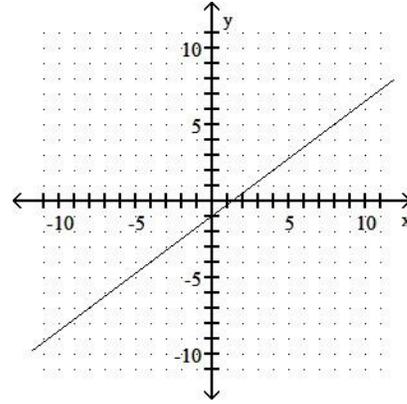
Answer: A

27)

$$y = -\frac{1}{4}x - \frac{9}{4}$$
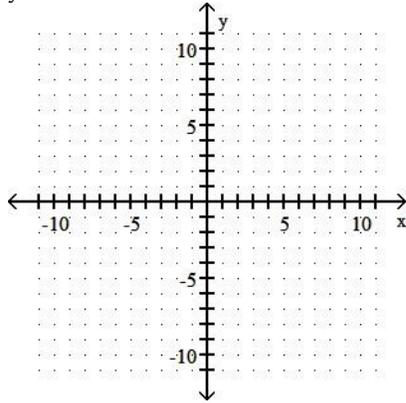
27) _____

A)
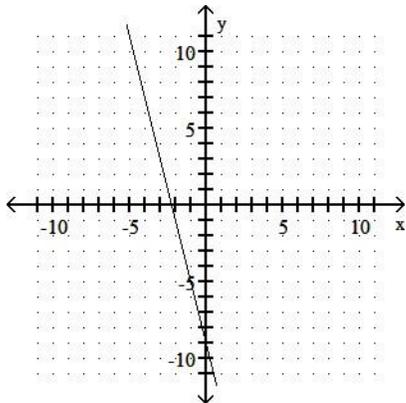

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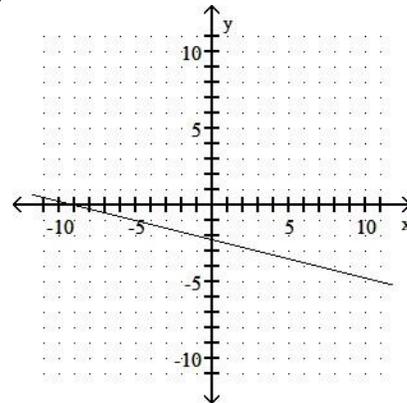
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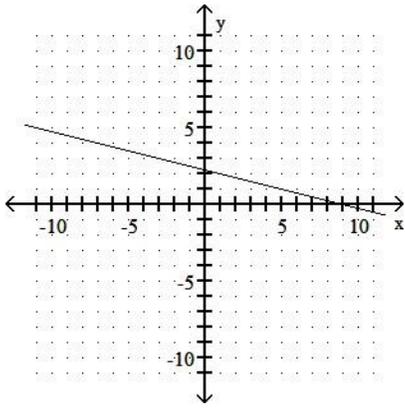
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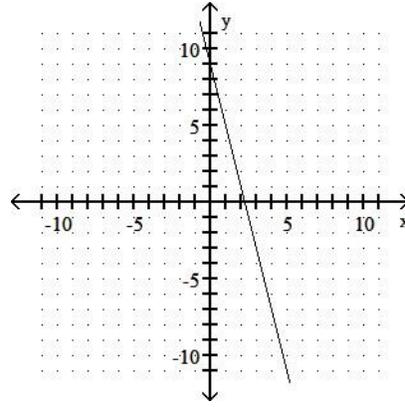
Answer: B

28) x - 5y = 9

28) _____
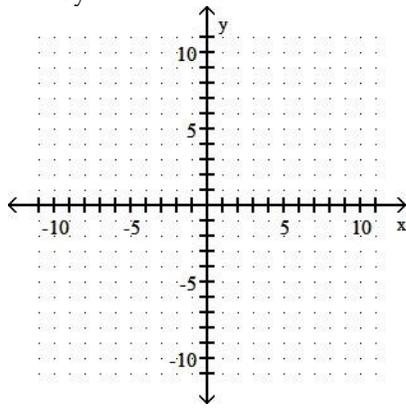
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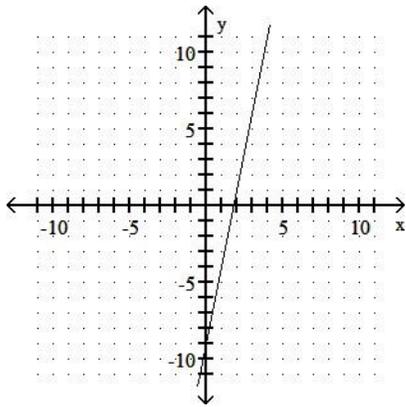
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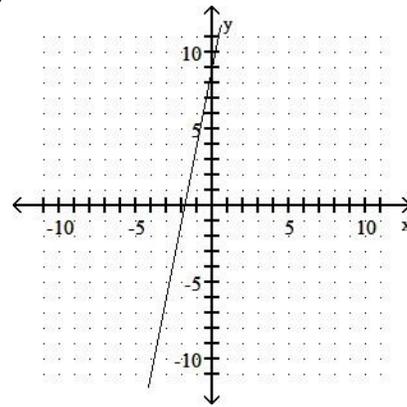
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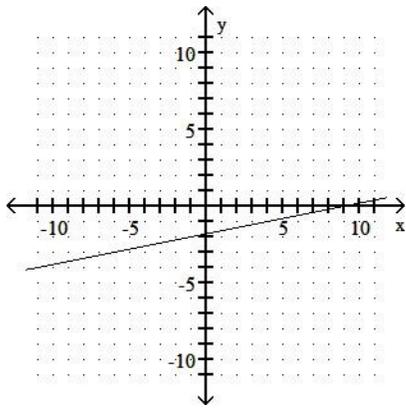
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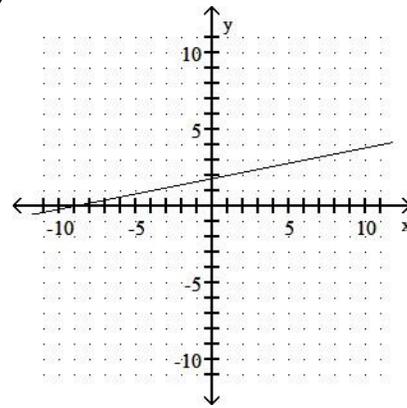
Answer: C

29) $4y - 8x = -8$

29) _____
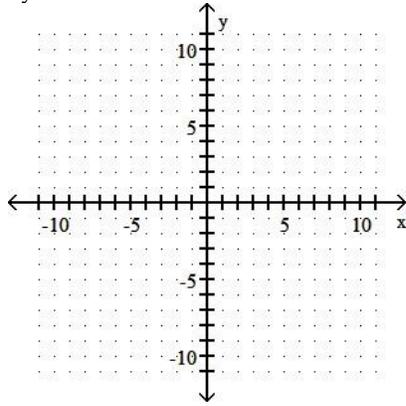

A)
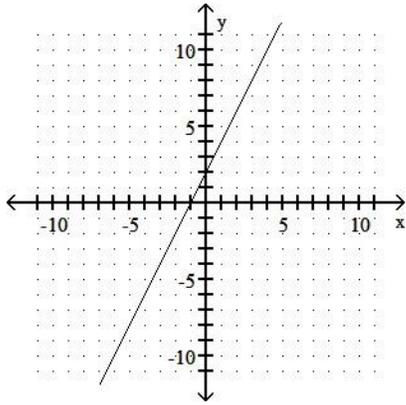
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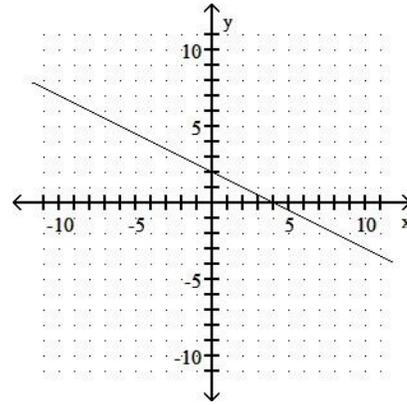
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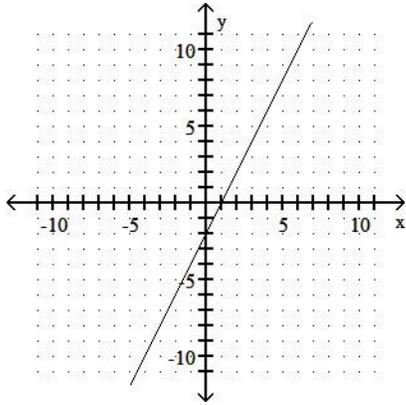
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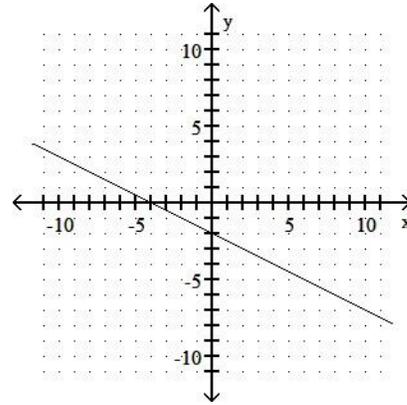
Answer: C

30) $7x - y = 2$

30) _____
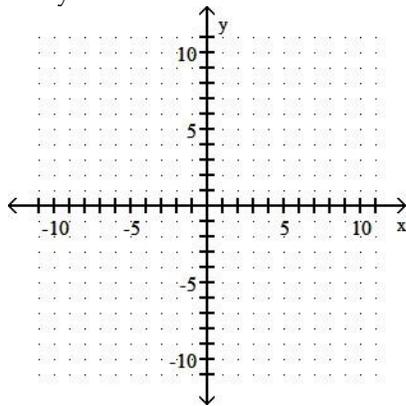
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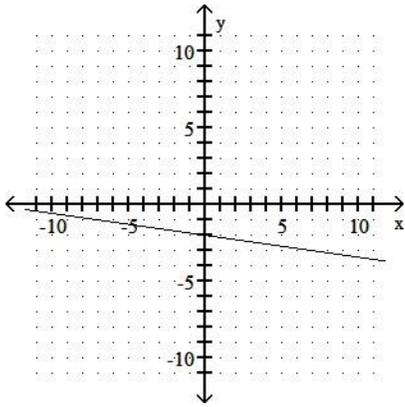
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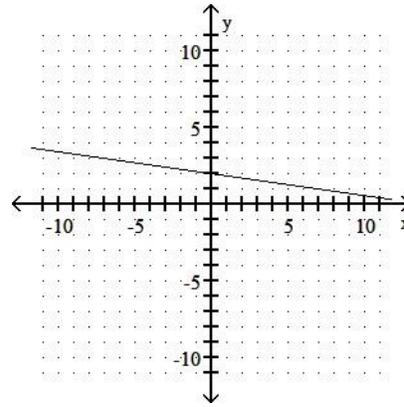
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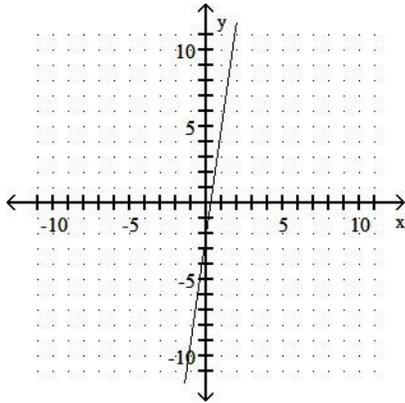
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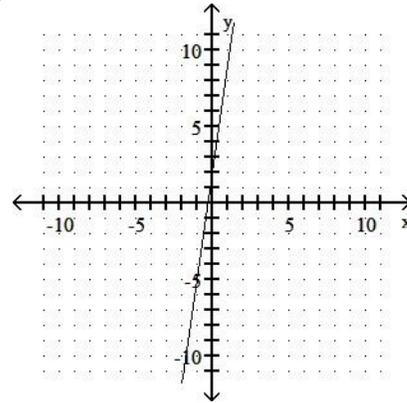
Answer: C

31) $y = \dfrac{1}{5}x - \dfrac{3}{5}$

31) _____

A)

B)

C)

D)
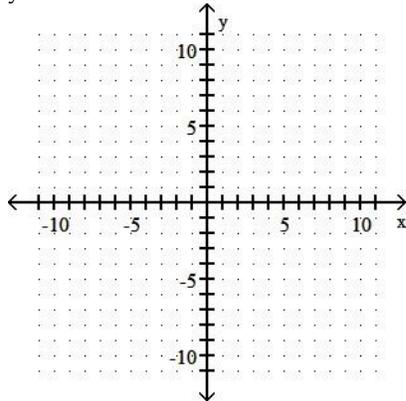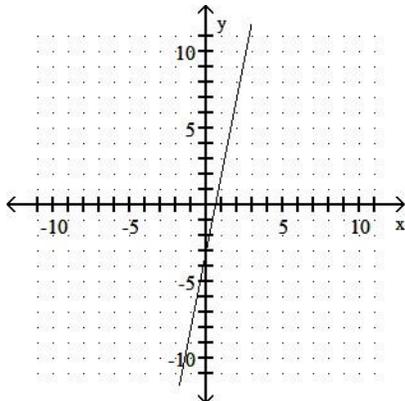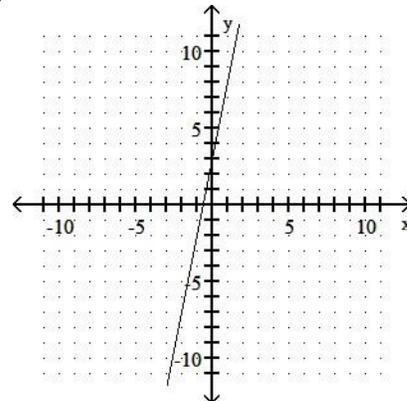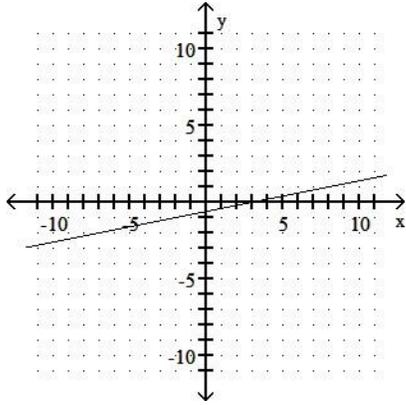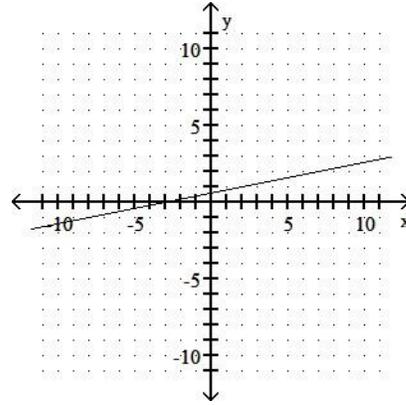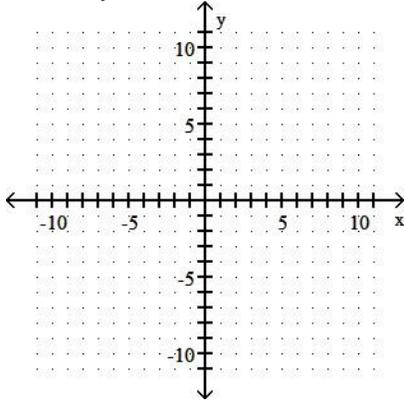
Answer: C

32) -2x + 6y = 8   32) _____



A)
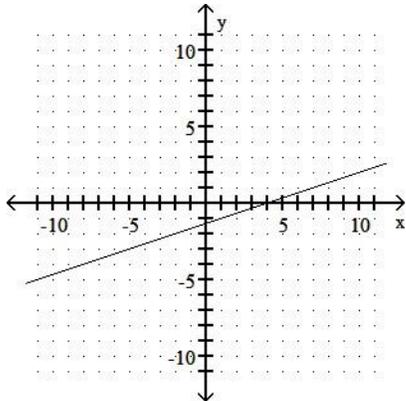
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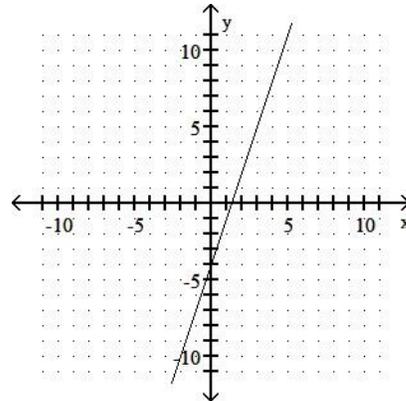
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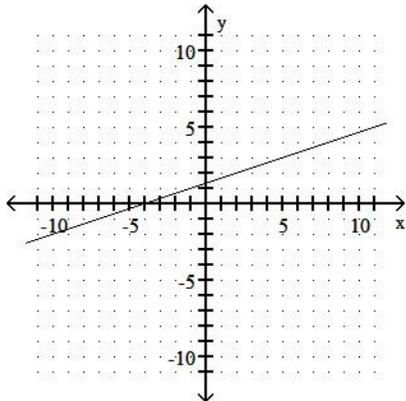
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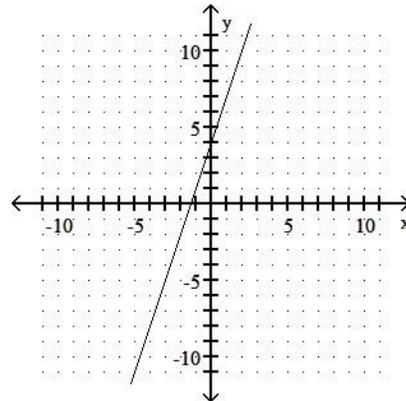
Answer: C

33) -9x - y = 0

33) _____
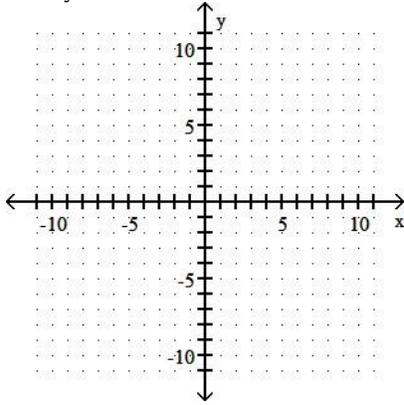
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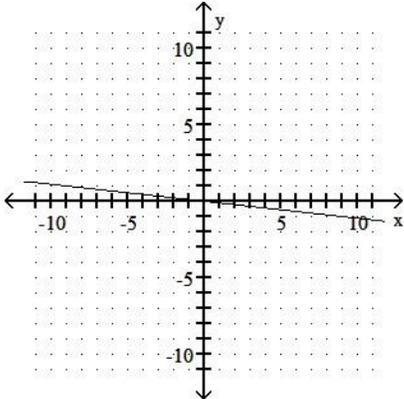
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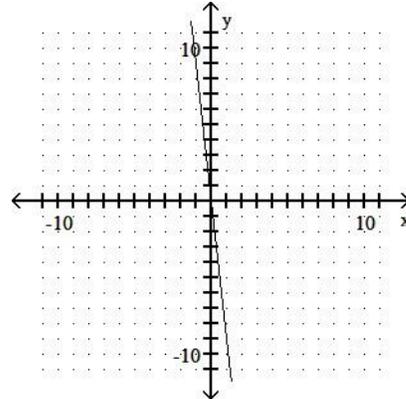
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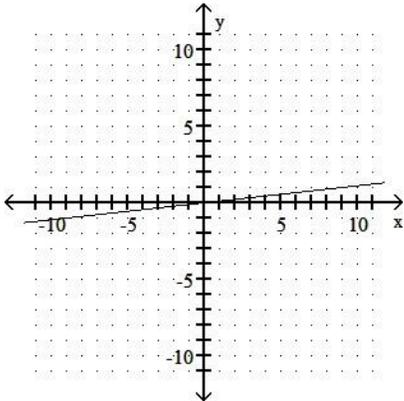
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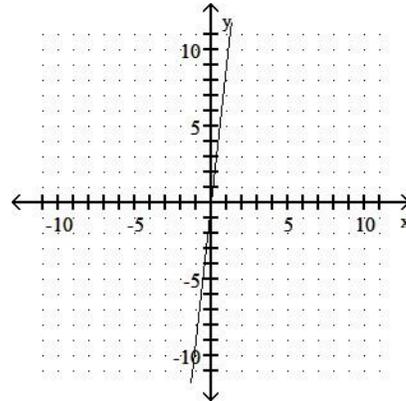
Answer: B

34) 3x + y = 0

34) _____
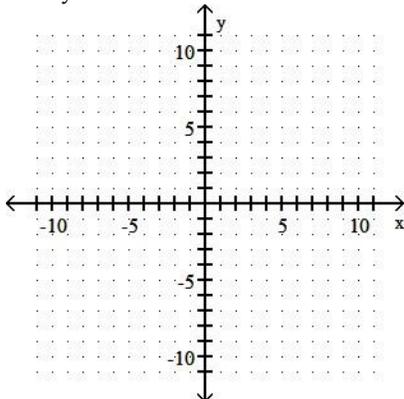
A)
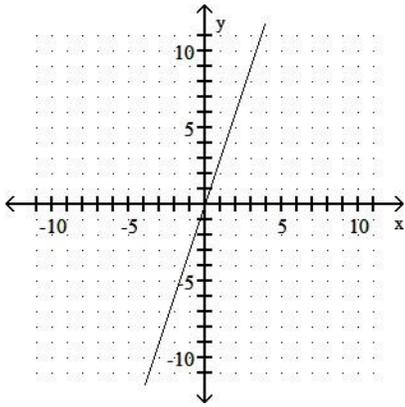
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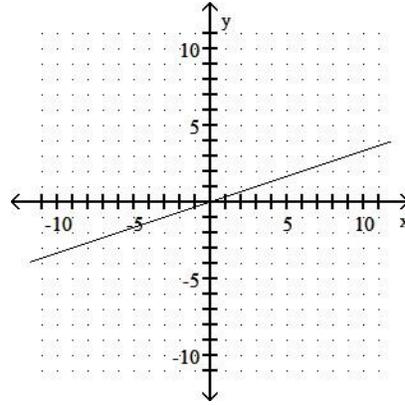
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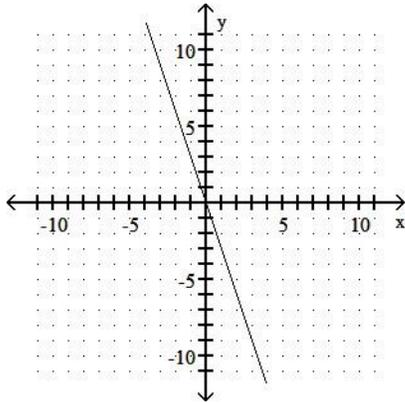
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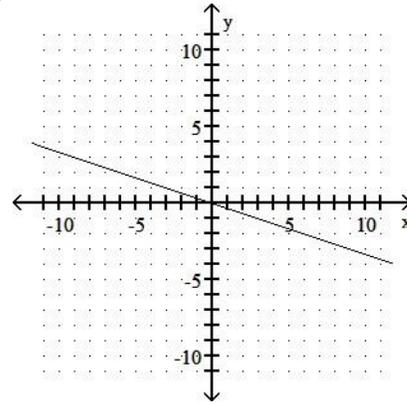
Answer: C

Graph.

35) $y = 2x^2$

35) _____
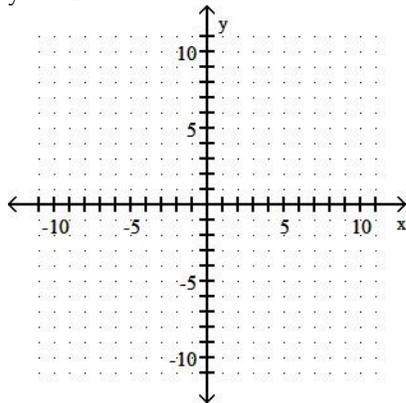
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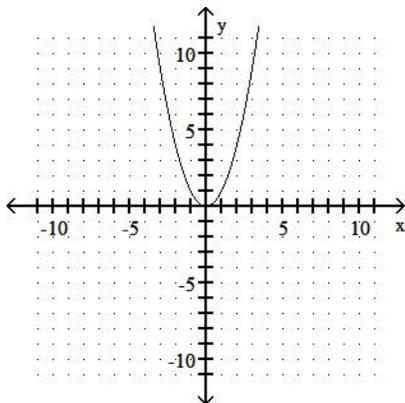
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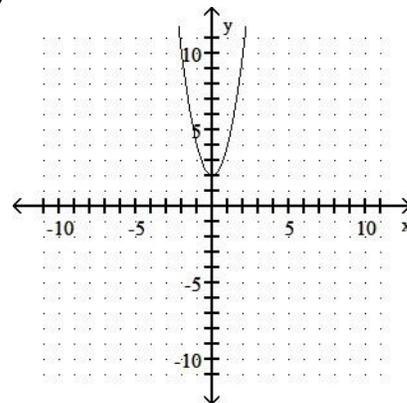
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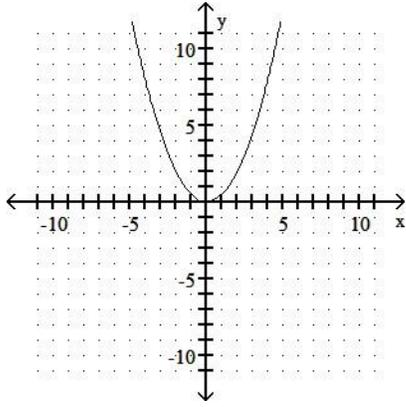
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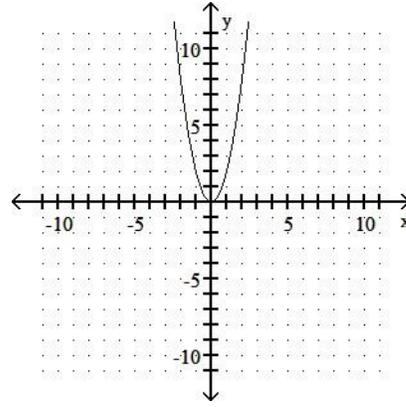
Answer: D

36) $y = x^2 - 5$

36) _____
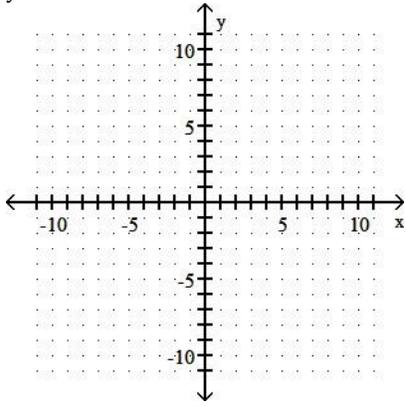
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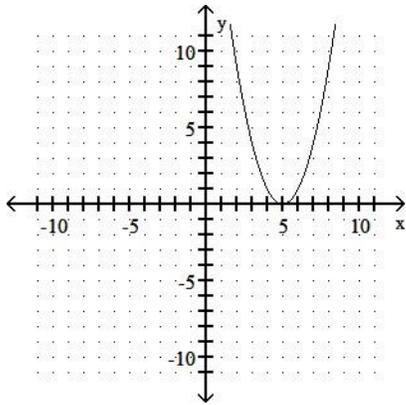
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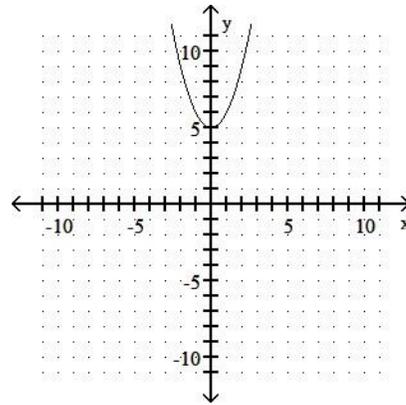
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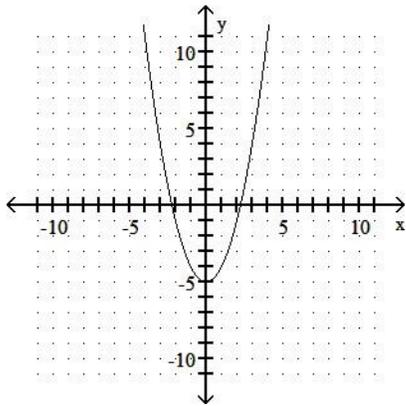
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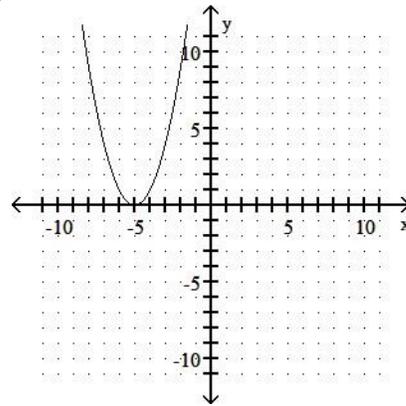
Answer: C

37) $y = -x^2 - 1$

37) _____
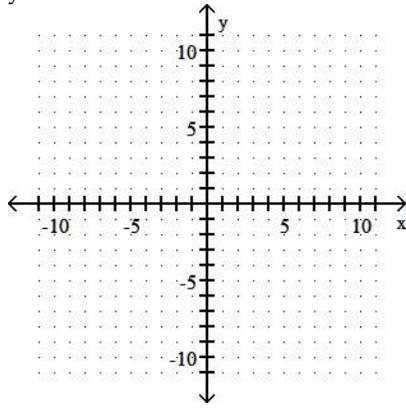
A)
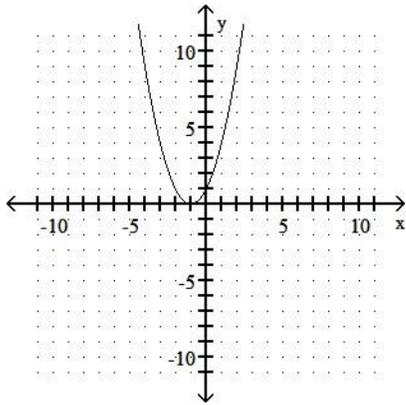
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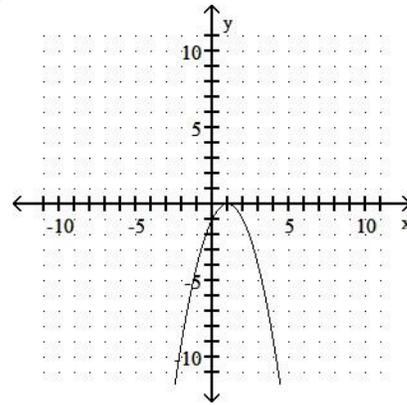
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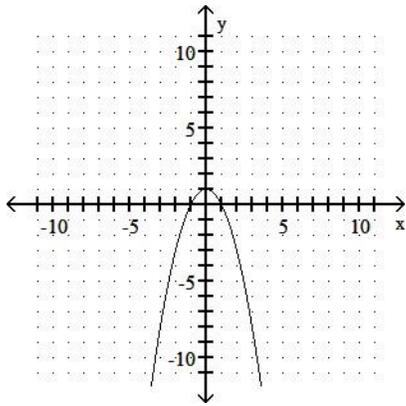
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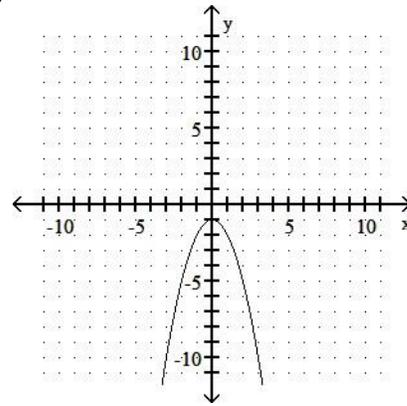
Answer: D

38) $y = 1x^2 - 5$

38) _____
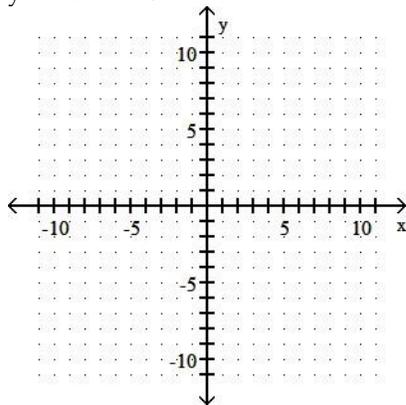
A)

B)

C)

D)

Answer: A

39) $y = \dfrac{8}{x}$

A)

B)

C)

D)

Answer: C

40) $y = -\dfrac{8}{x}$

A)

B)

C)

D)

Answer: D

40) _____
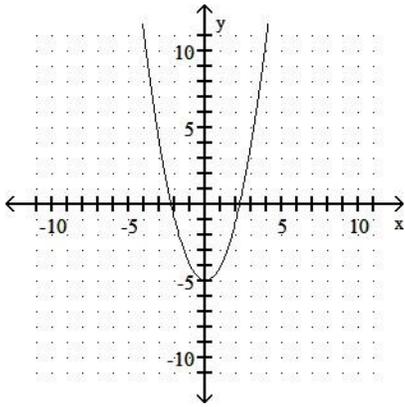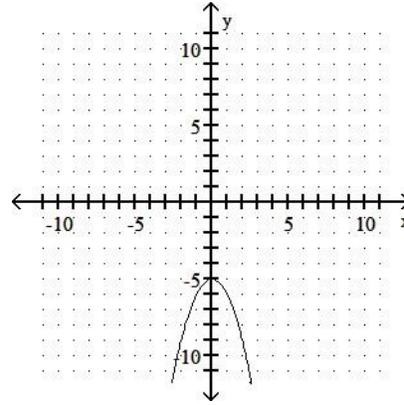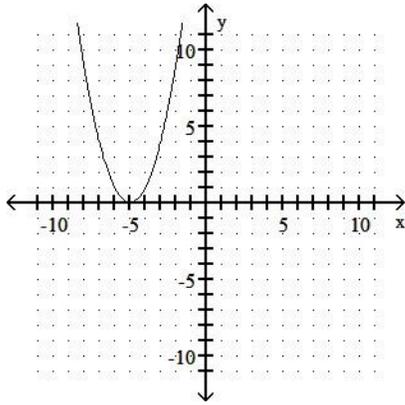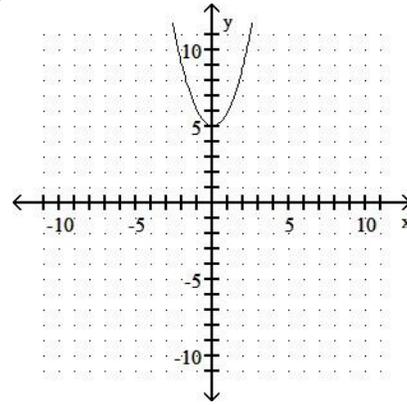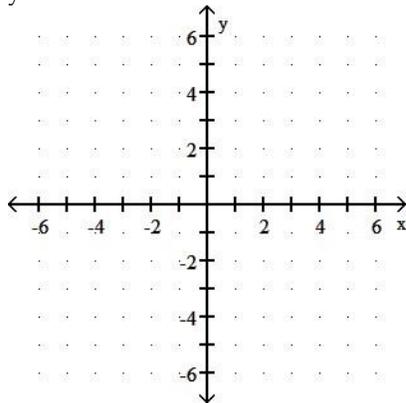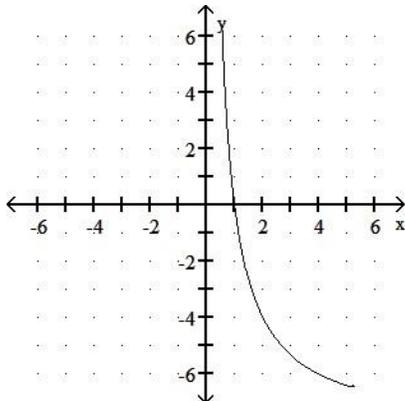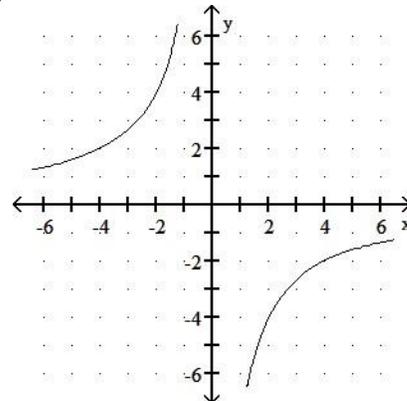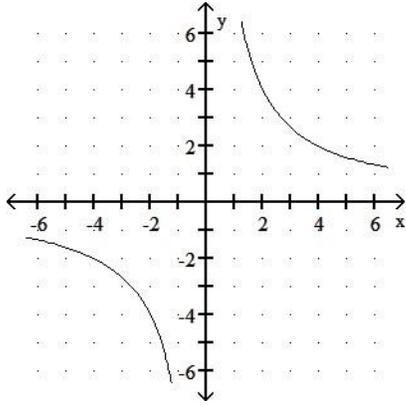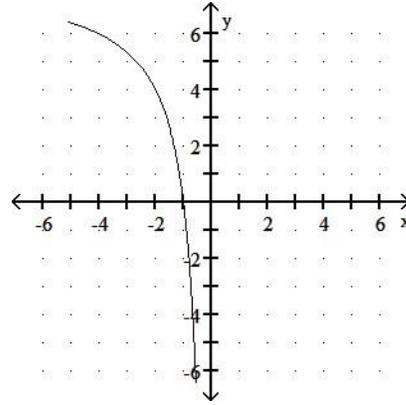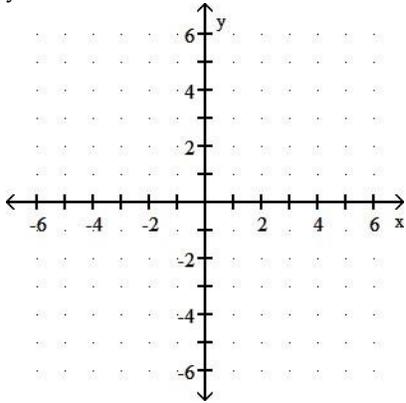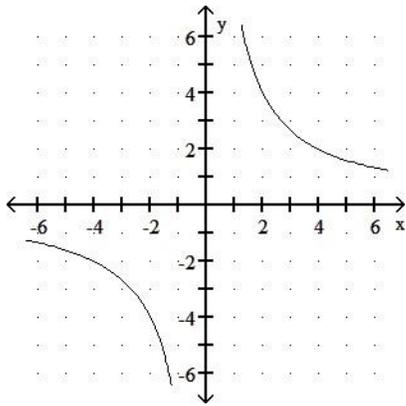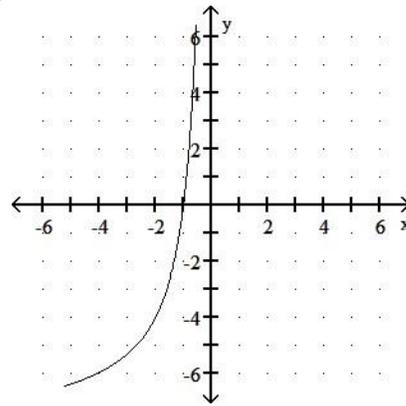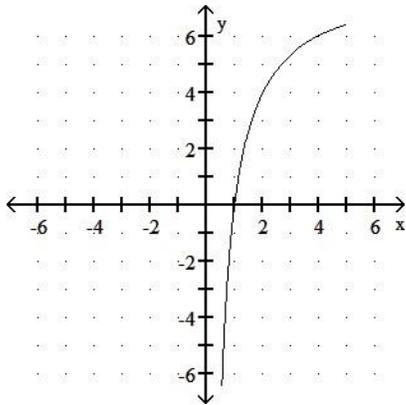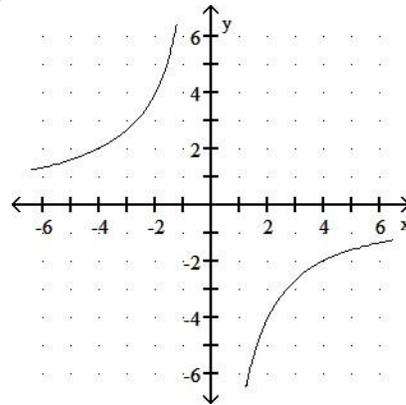
41) $y = |-1 - x|$
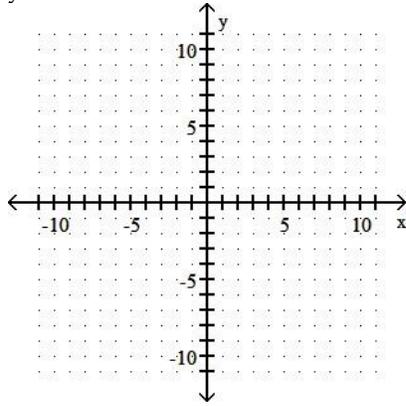
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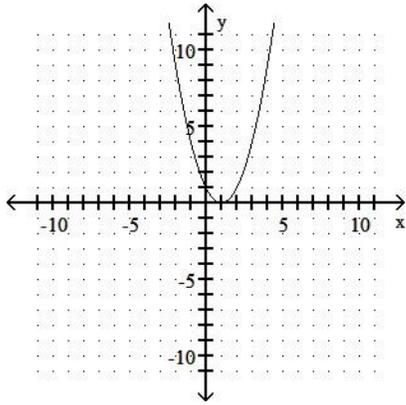
B)

C)

D)

Answer: D

42) $y = x^3 - 5$

A)

41) _____

42) _____
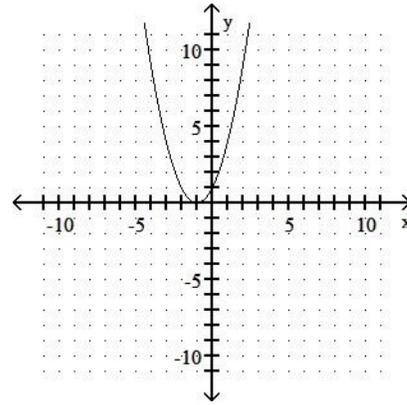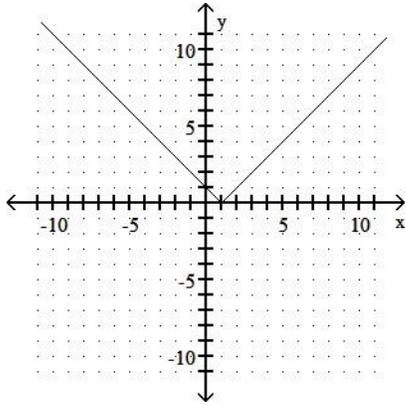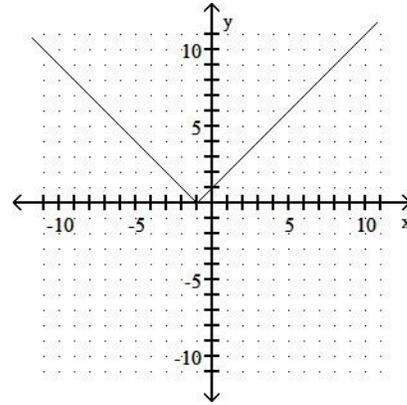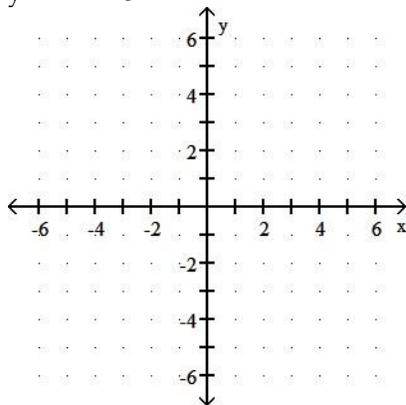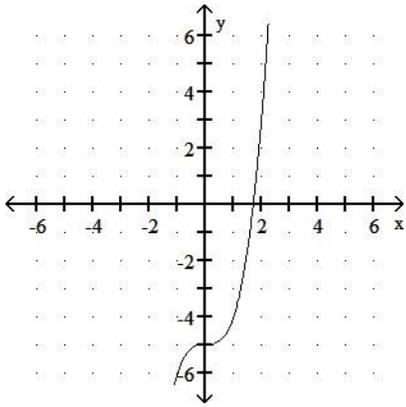
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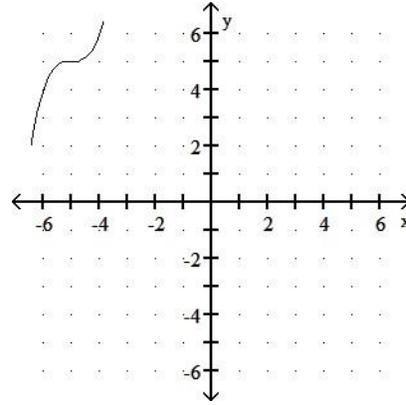
C)
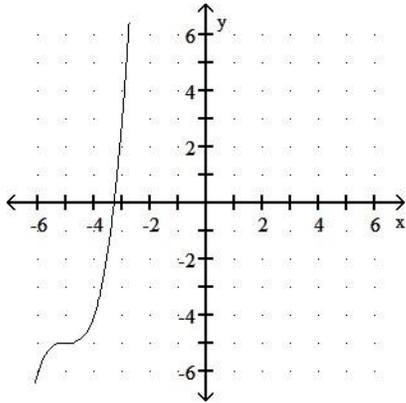
D)
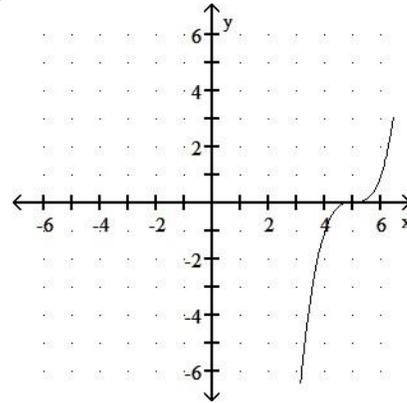
Answer: A

43) y = |x| + 6

43) _____
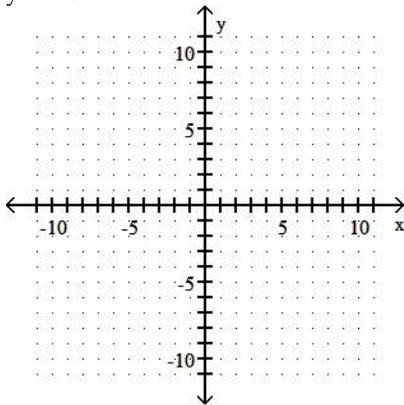
A)
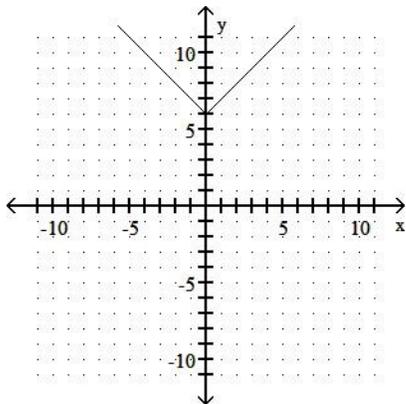
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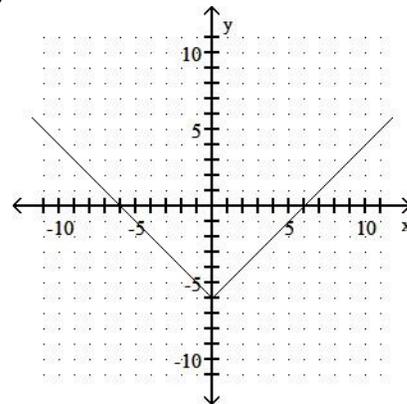
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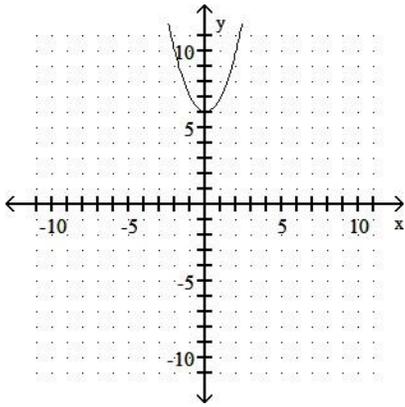
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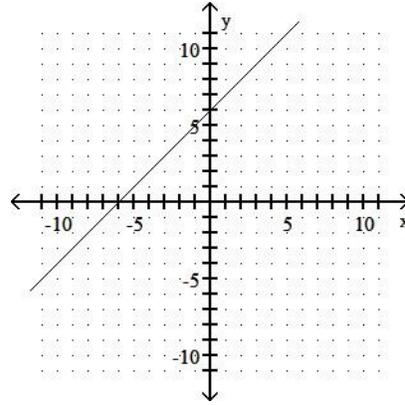
Answer: A

Is the following correspondence a function?

44)
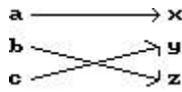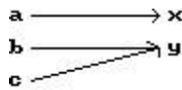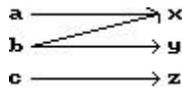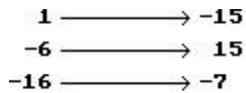
44) _____

    A) Yes   B) No

Answer: A

45)

45) _____

    A) No   B) Yes

Answer: B

46)

46) _____

    A) Yes   B) No

Answer: B

47)

1 $\longrightarrow$ −15
−6 $\longrightarrow$ 15
−16 $\longrightarrow$ −7

47) _____

    A) No   B) Yes

Answer: B

48)

48) _____

    A) Yes   B) No

Answer: B

49)

49) _____

    A) No   B) Yes

Answer: B

50)

-9 ——————→ -18
2 ———————→ 13
-15 ——————→ -7
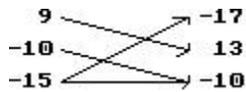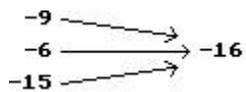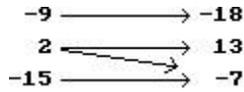
A) Yes   B) No

Answer: B

51) Domain: All students attending Laughlin Community College
Correspondence: Each student's Social Security Number
Range: A set of Social Security Numbers

A) No   B) Yes

Answer: B

52) Domain: All students attending the University of Ohio
Correspondence: Each student's teachers
Range: A set of teachers

A) No   B) Yes

Answer: A

53)

Name	Test Score
Bob L.	83
Susan H.	83
Jim H.	76
Bruce B.	96

A) No   B) Yes

Answer: B

Find the function value.

54) Find f(2) when f(x) = -x + 7.

A) 2   B) 10   C) 5   D) -5

Answer: C

55) Find f(-7) when f(x) = -5x - 29.

A) -29   B) 4   C) 145   D) 6

Answer: D

56) Find f(-5) when f(x) = 8x - 6.

A) 46   B) -20   C) -46   D) -49

Answer: C

57) Find g(a + 1) when g(x) = 2x + 1.

A) $\frac{1}{2}a + 1$ B) 2a + 3   C) 2a - 1   D) 2a + 1

Answer: B

58) Find f(3) when f(x) = -4.

A) -4   B) 3   C) 4   D) -12

Answer: A

59) Find f(-3) when f(x) = x^2 - 3x + 7.

50) _____

51) _____

52) _____

53) _____

54) _____

55) _____

56) _____

57) _____

58) _____

59) _____

A) -7   B) 11   C) 7   D) 25
Answer: D

60) Find f(0) when f(x) = x^2 + 3x + 5.   60) _____
   A) -5   B) 5   C) 0   D) 25
Answer: B

61) Find f(2a) when f(x) = $8x^2$ + 5x.   61) _____
   A) $16a^2$ + 10a   B) $32a^2$ + 10a   C) $8a^2$ + 10a   D) $32a^2$ + 5a
Answer: B

62) Find f(-3) when f(x) = $3x^2$ + 4x - 1.   62) _____
   A) -4   B) 16   C) 14   D) 38
Answer: C

63) Find f(4) when f(x) = $|x + 1|$.   63) _____
   A) -5   B) -1   C) 5   D) 4
Answer: C

64) Find f(8) when f(x) = x^3.   64) _____
   A) 512   B) 6561   C) 24   D) 343
Answer: A

65) Find f(-3) when f(x) = x^4 + -3.   65) _____
   A) -84   B) 9   C) 78   D) 24
Answer: C

Solve the problem.

66) It has been determined that the number of fish f(t) that can be caught in t minutes in a certain   66) _____
pond using a certain bait is $f(t) = .28t + 1$, for t > 10. Find the approximate number of fish that
can be caught if you fish for 24 minutes.
   A) About 16 fish   B) About 28 fish   C) About 26 fish   D) About 7 fish
Answer: D

67)   67) _____
The function P(d) = 1 + $\dfrac{d}{33}$ gives the pressure, in atmospheres (atm), at a depth d feet in the sea.
Find the pressure at 35 feet.
   A) $\dfrac{68}{33}$ atm   B) $\dfrac{12}{11}$ atm   C) $\dfrac{2}{33}$ atm   D) $\dfrac{35}{33}$ atm
Answer: A

68)   68) _____
The function F described by F(C) = $\dfrac{9}{5}$C + 32 gives the Fahrenheit temperature corresponding to
the Celsius temperature C. Find the Fahrenheit temperature equivalent to 20 °C.
   A) 176 °F   B) 68 °F   C) 104 °F   D) 140 °F
Answer: B

Graph the function.

69) f(x) = x - 1

69)
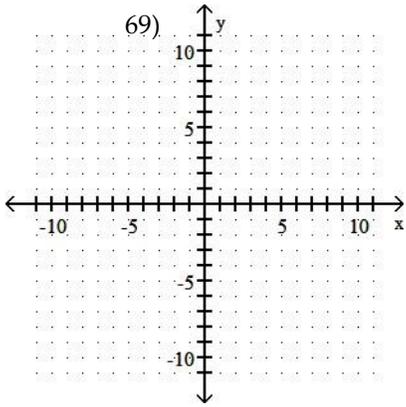
A)
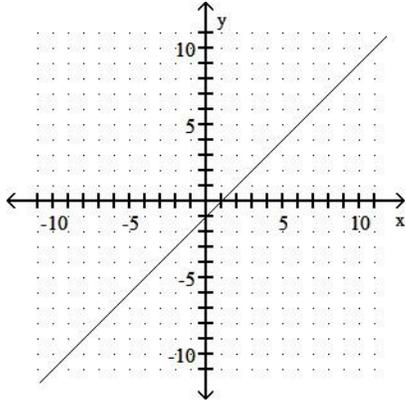
B)

C)

D)
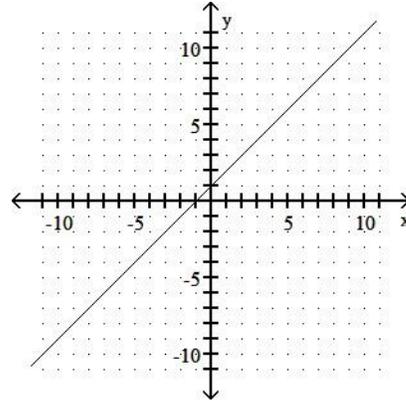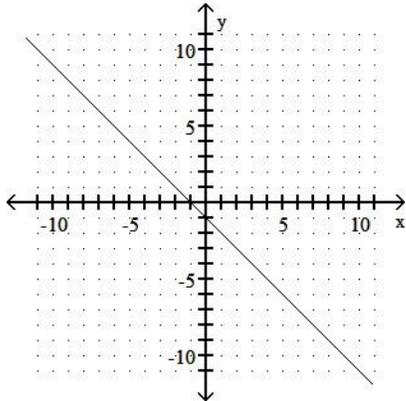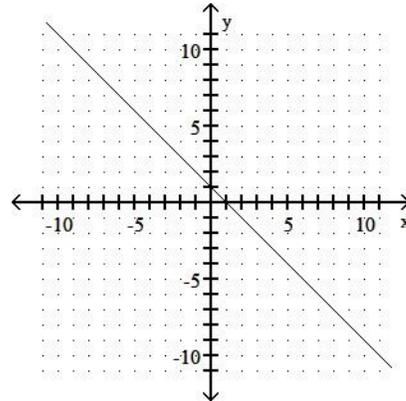
Answer: A

70) $y = -3x - 5$
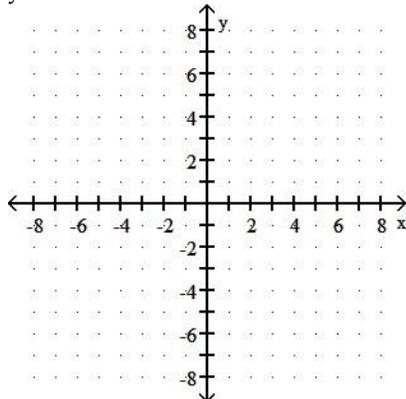
A)
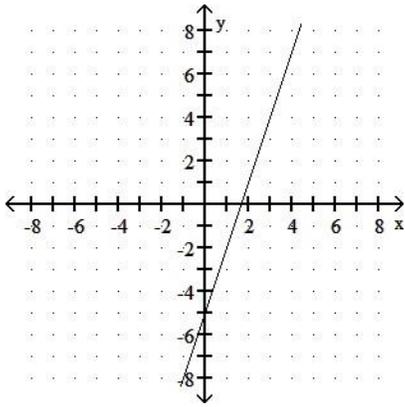
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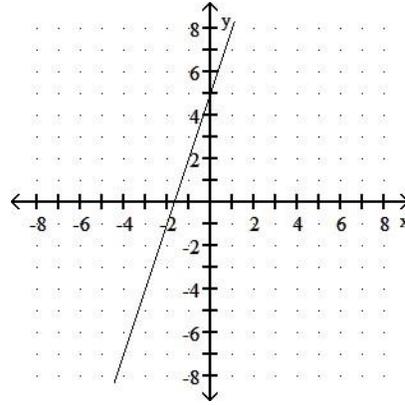
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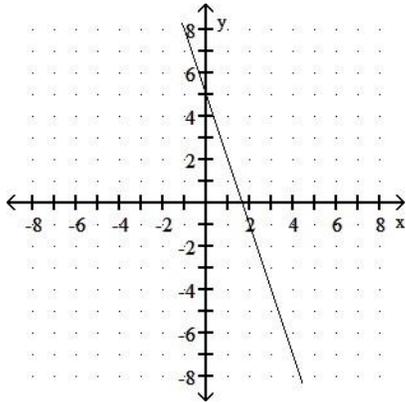
D)
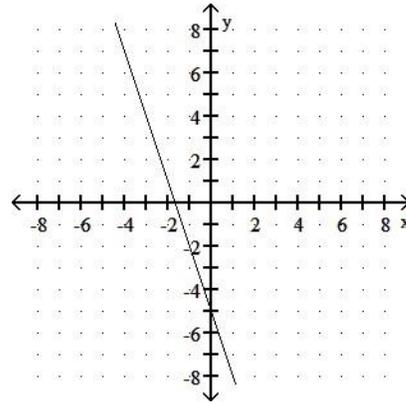
Answer: D

71) $f(x) = \dfrac{1}{5}x - 5$

71) _____

A)

B)

C)

D)
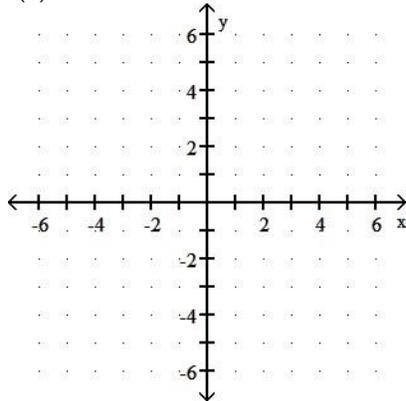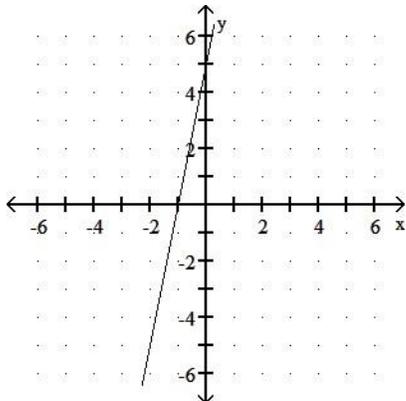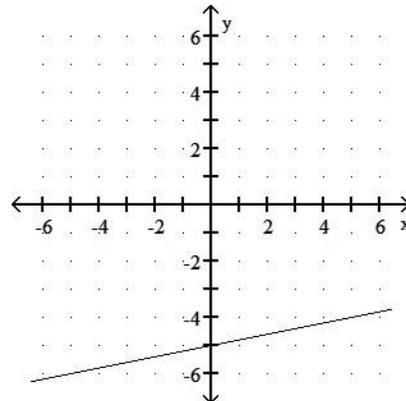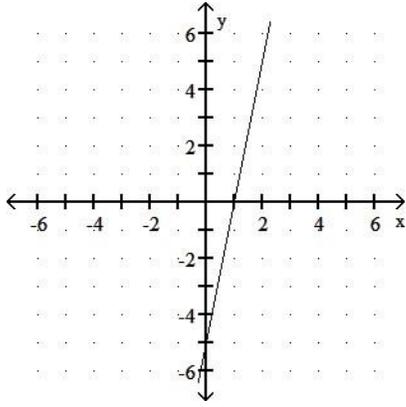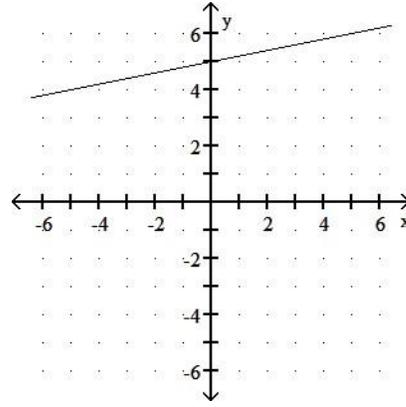
Answer: B

72) $f(x) = x^2 - 2$

72) _____
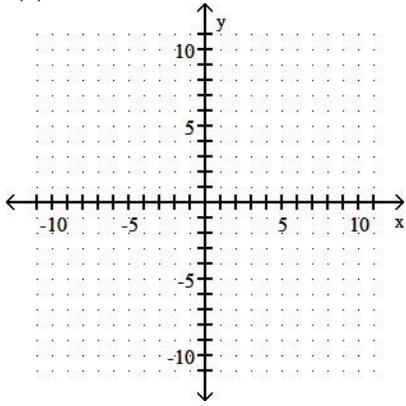
A)
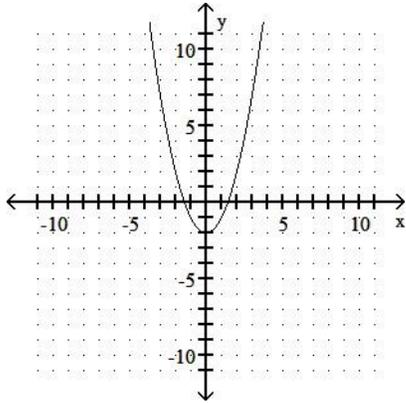
B)
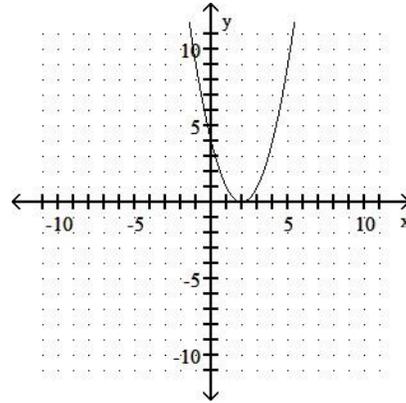
C)
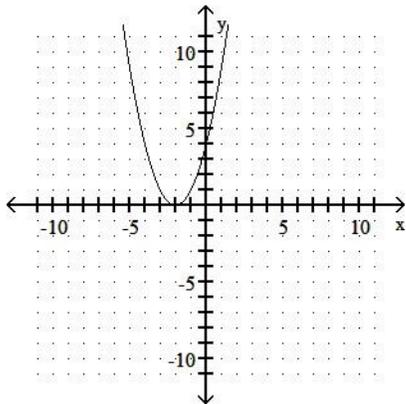
D)
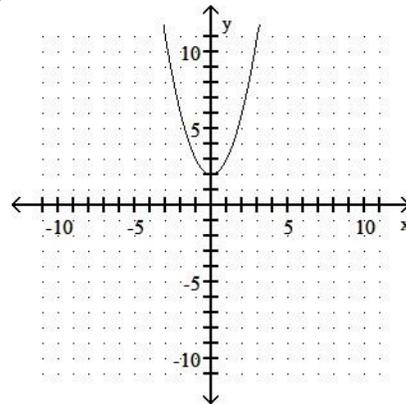
Answer: A

73) $f(x) = x^2 + 2x + 1$

73) _____
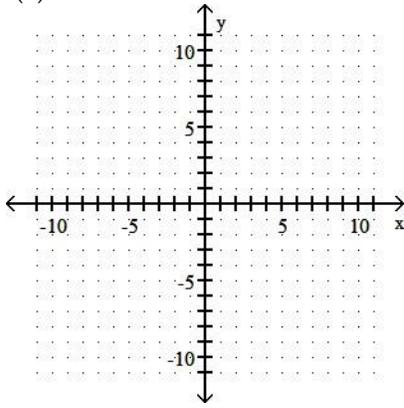

A)
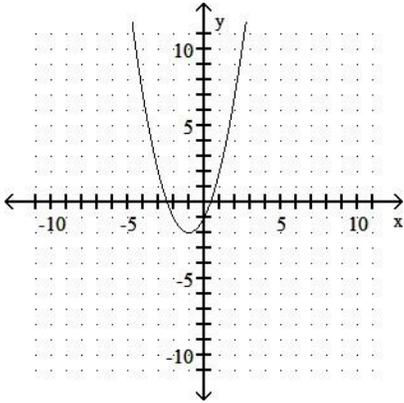
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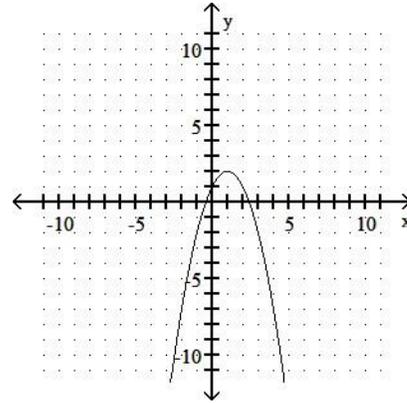
C)
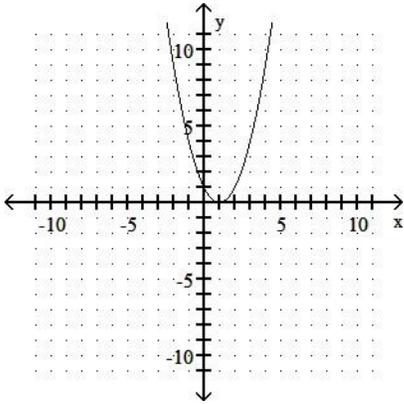
D)
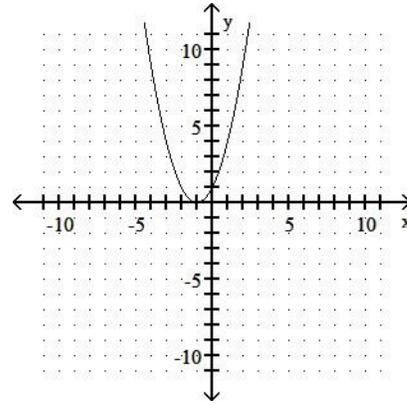
Answer: D

74) $f(x) = -x^2 - 3x - 9$

74) _____
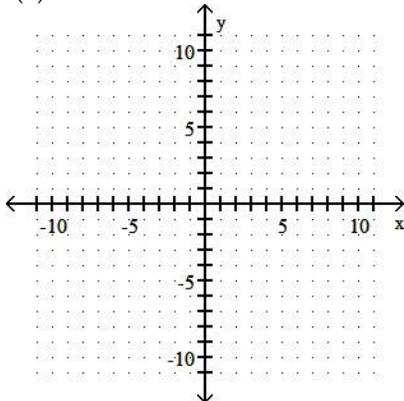
A)
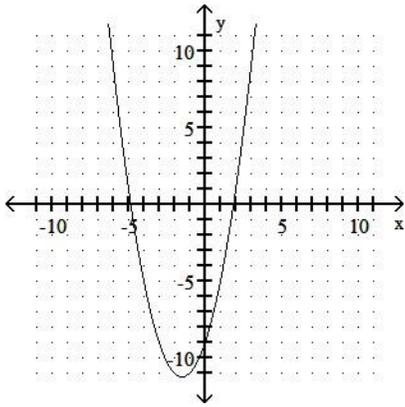
B)
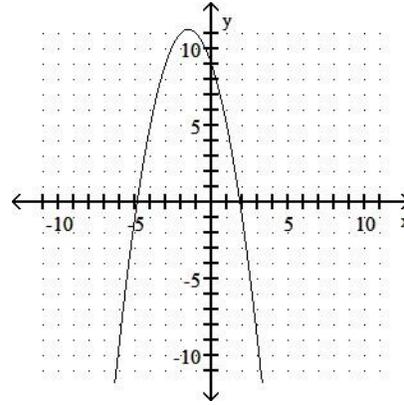
C)
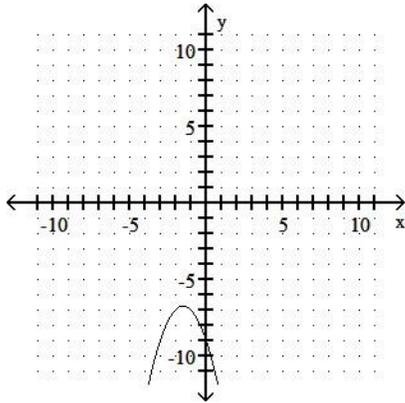
D)
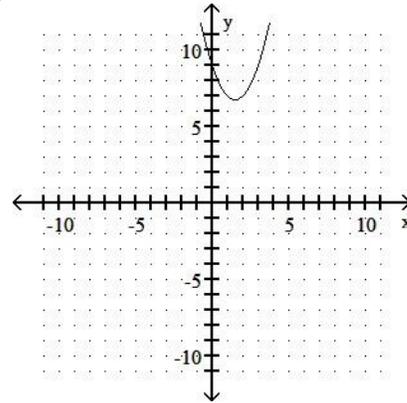
Answer: C

75) $f(x) = -1 - x^2$

75) _____
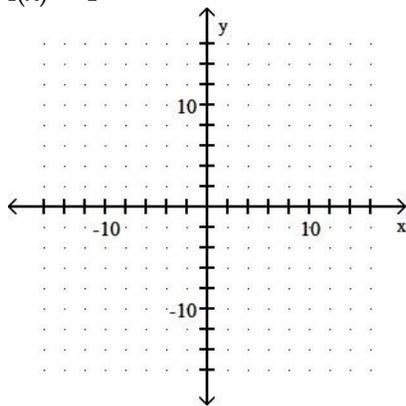
A)
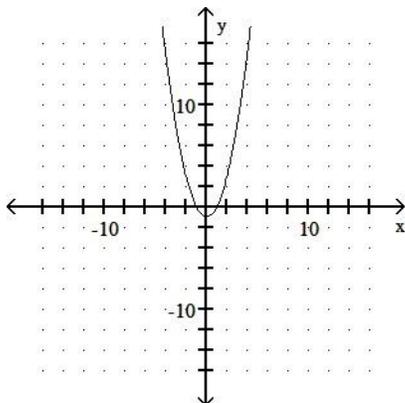
B)
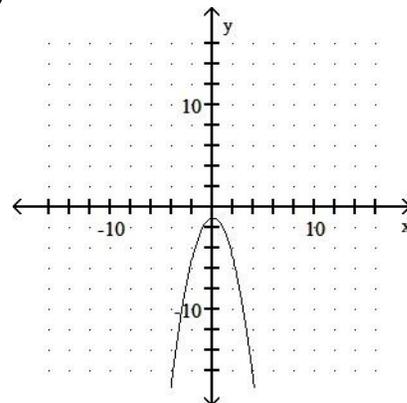
C)
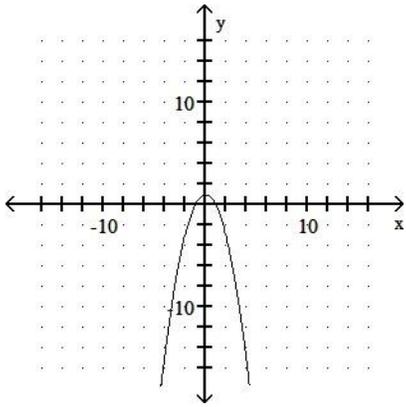
D)
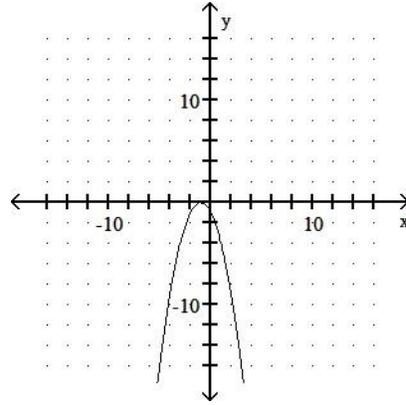
Answer: B

76) f(x) = |8 - x|

76) _____
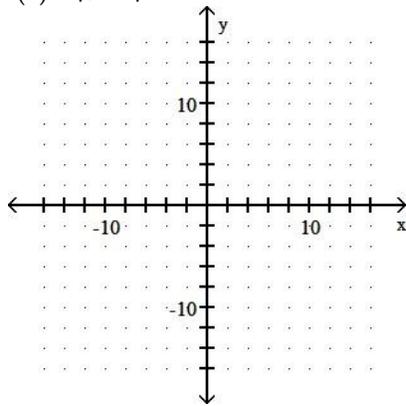
A)
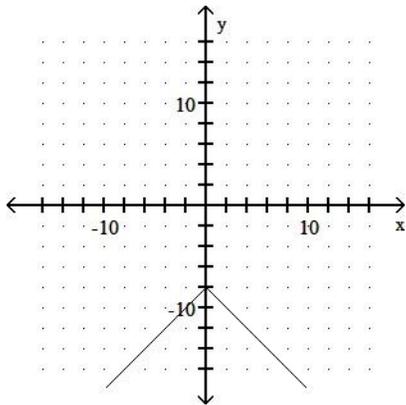
B)
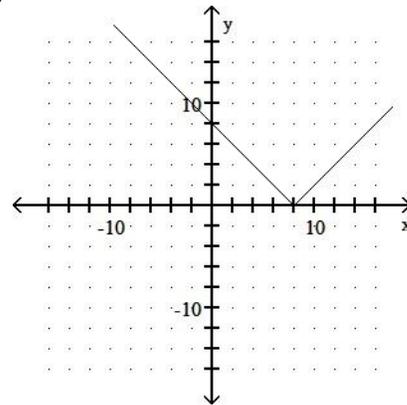
C)
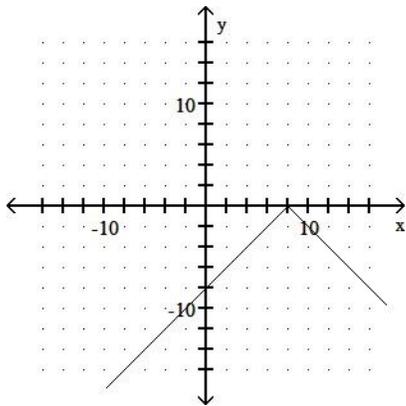
D)
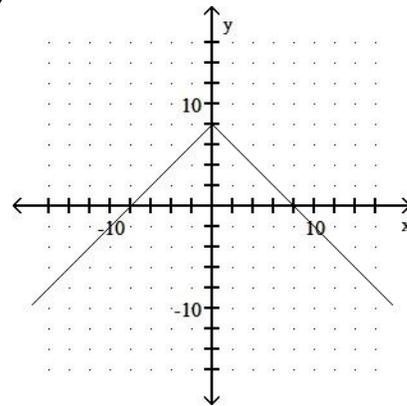
Answer: B

77) $f(x) = |x| + 2$

77) _____

A)

B)

C)

D)

Answer: B

78) $f(x) = x^3 + 1$

78)
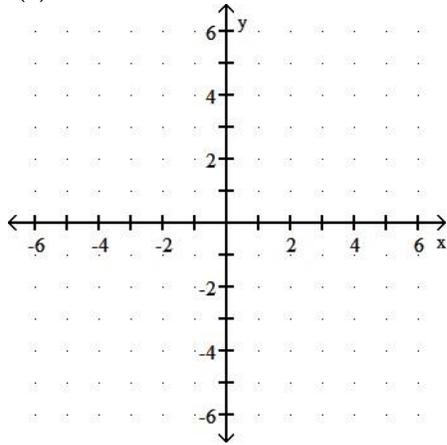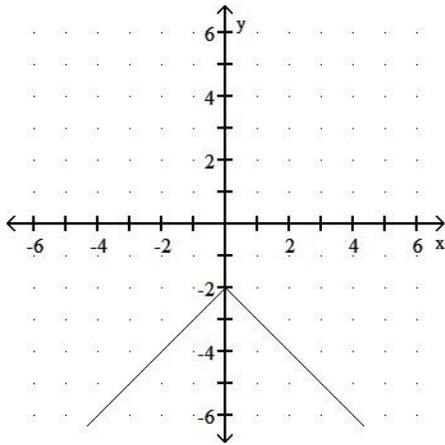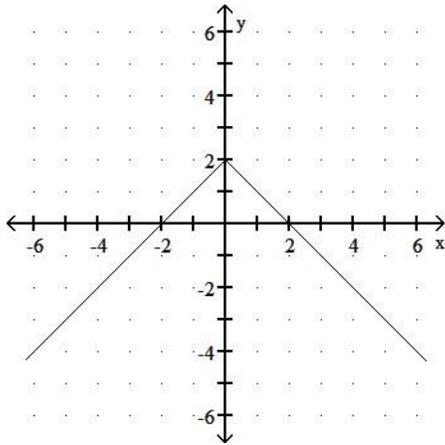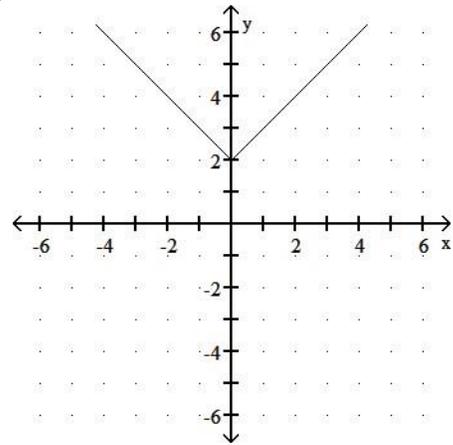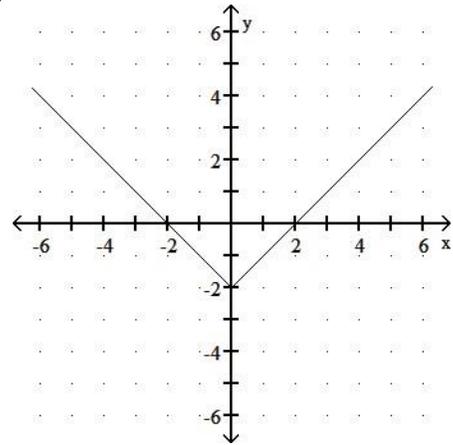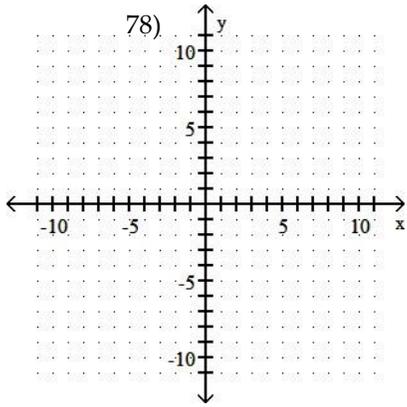
A)
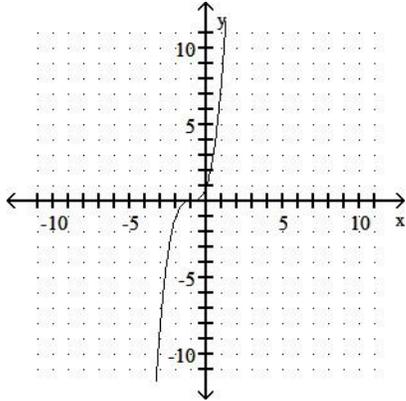
B)
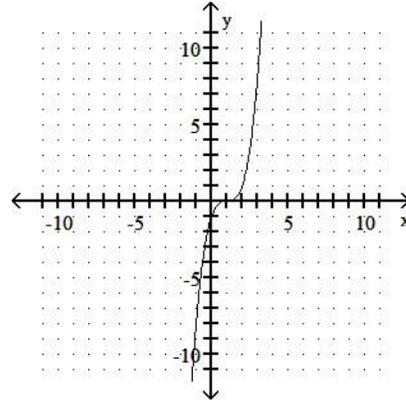
C)
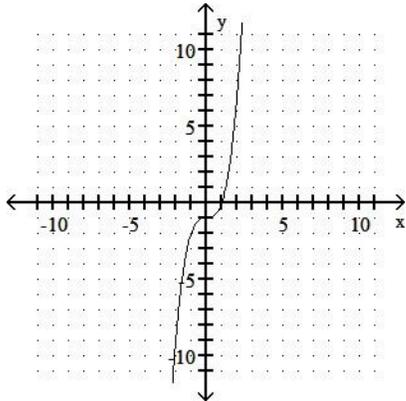
D)
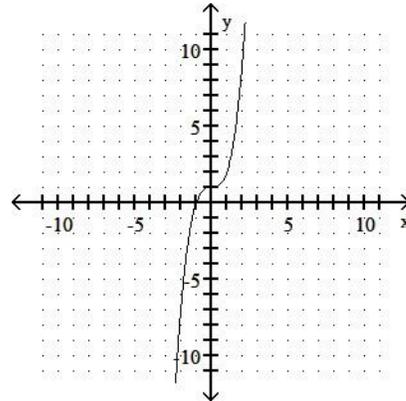
Answer: D

Determine whether the graph is the graph of a function.

79)

79) _____
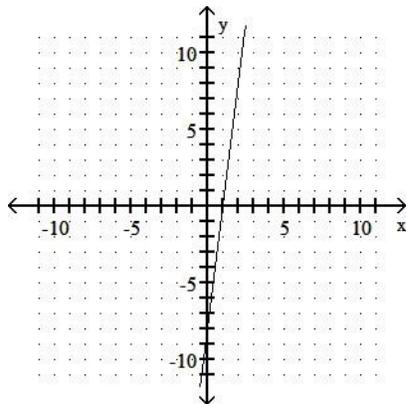
A) Not a function

B) Function

Answer: B

80)
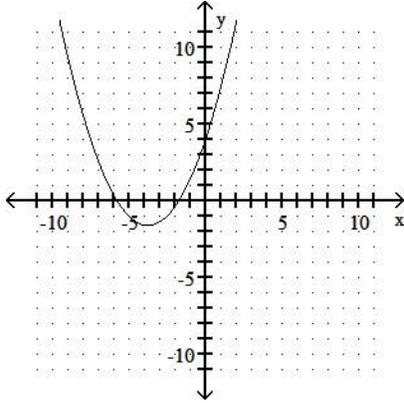
A) Not a function   B) Function

Answer: B

81)
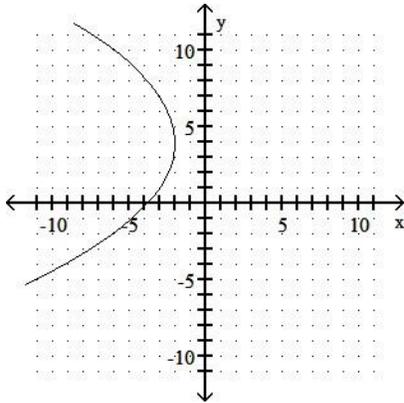
A) Not a function   B) Function

Answer: A

82)
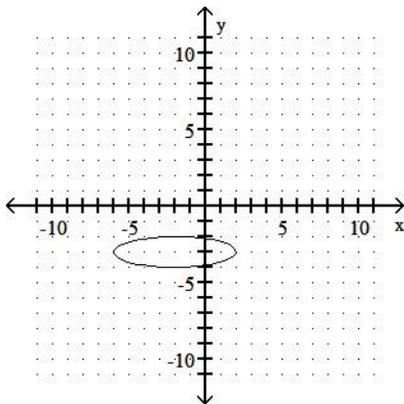
A) Function   B) Not a function

Answer: B

83)

83)
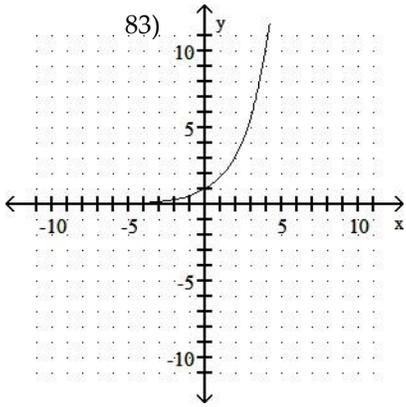
A) Not a function   B) Function

Answer: B

84)

84) _____
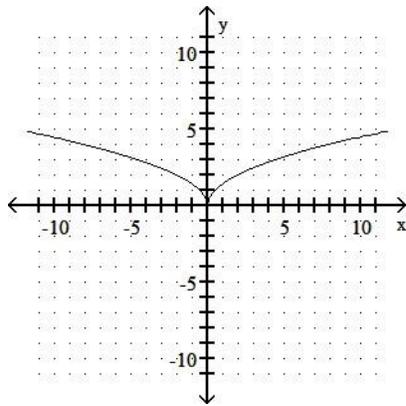
A) Not a function   B) Function

Answer: B

Solve.

85) Cars sold

85) _____
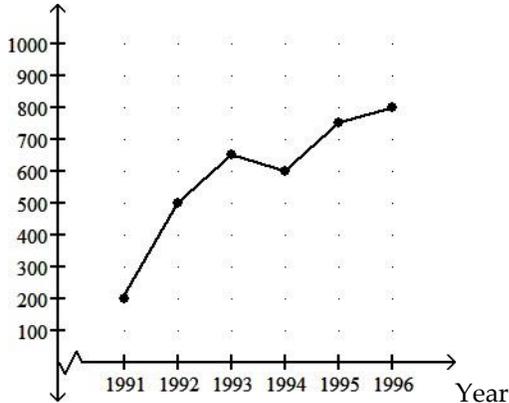
Crafty Bill's Cool Car Sales opened as a used car sales lot in 1991. The graph shows the number of cars sold as a function of time. What is the approximate number of cars sold in 1993?

A) 500 cars   B) 650 cars   C) 600 cars   D) 250 cars

Answer: B

86) Cars sold

86)

1000
900
800
700
600
500
400
300
200
100

1991 1992 1993 1994 1995 1996
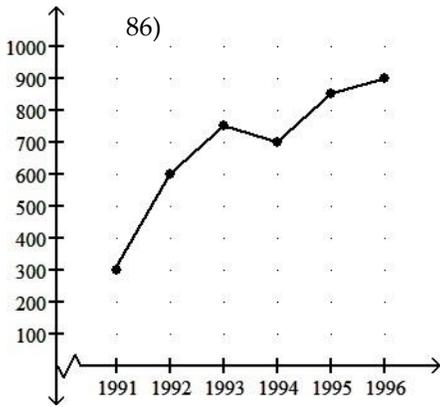
Year

Crafty Bill's Cool Car Sales opened as a used car sales lot in 1991. The graph shows the number of cars sold as a function of time. What is the approximate number of cars sold in 1995?

A) 800 cars   B) 850 cars   C) 600 cars   D) 250 cars

Answer: B

87) The height h in feet of a projectile thrown upward from the roof of a building after time t seconds is shown in the graph below. How high will the projectile be after 1.1 seconds?
Height (in ft)

Time (in sec)

600
500
400
300
200
100

1   2
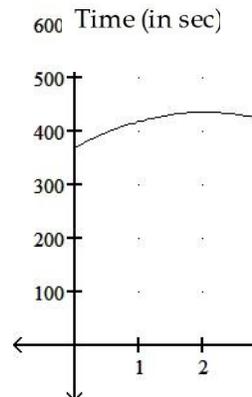
87)

_____

A) 450 ft   B) 375 ft   C) 400 ft   D) 425 ft

Answer: D

88) The surface area a of a cylinder is shown in the graph below. What is the radius if the surface area is 10 m^2?

88) _____

Surface Area (in m^2)

Height (in ft)
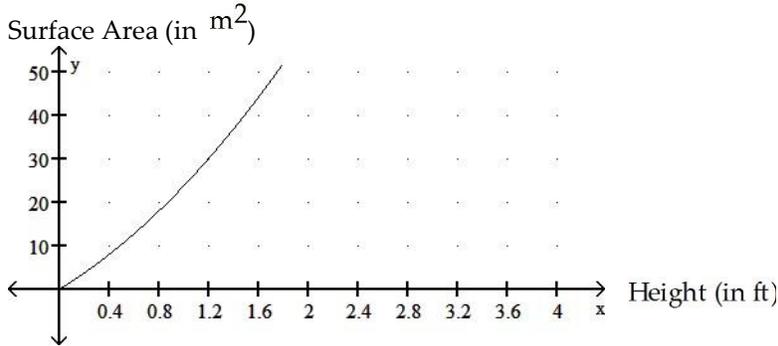
A) 0.4 m   B) 0.6 m   C) 0.0 m   D) 0.2 m

Answer: A

89) The graph shows the relationship between the area A of a rectangle and the length L, if the width is fixed. Find the area if the length is 17 cm.

89) _____

Area (in cm^2)

Length (in cm)
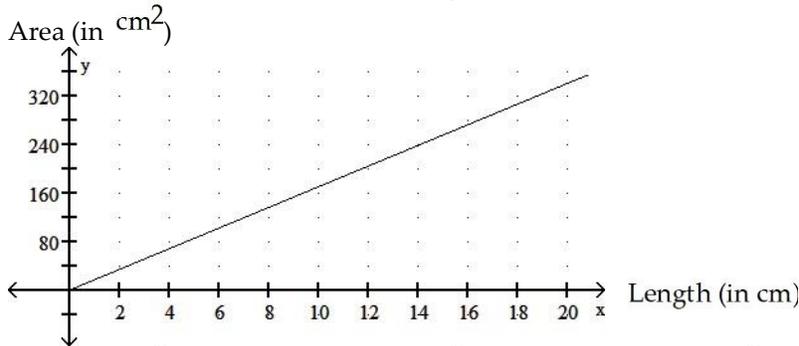
A) 255 cm^2 B) 323 cm^2 C) 289 cm^2 D) 238 cm^2

Answer: C

For the function represented in the graph, determine the domain or range, as requested.

90) Find the domain.

90) _____
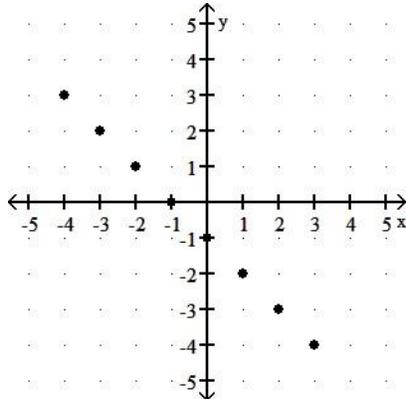
A) {-4, -3, -2, -1, 0, 1, 2, 3}   B) {-5, -4, -3, -2, -1, 0, 1, 2, 3}
C) [-4, 4]   D) [-2, 2]

Answer: A

91) Find the domain.

91)

A) [-3, 4]   B) [-5, 5]   C) [2, -2]   D) [-4, 5]

Answer: A

92) Find the domain.   92) _____

A) [2, 4]   B) [-1, 4]
C) [-1, 1]   D) {-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5}

Answer: B

93) Find the range.   93) _____

A) [-3, 3]   B) {-5, -4, -3, -2, -1, 0, 1, 2, 3}
C) [-5, 3]   D) {-4, -3, -2, -1, 0, 1, 2, 3, 4}

Answer: B

94) Find the range.

94)

A) [-2, 2]   B) [-0.65, 4.65]   C) [-5, 5]   D) [-4, 3]

Answer: D

95) Find the range.   95) _____

A) [-5, 3]   B) [-5, 5]
C) [-3, 5]   D) {-3, -2, -1, 0, 1, 2, 3, 4, 5}

Answer: C

96) Find the range.   96) _____

A) {-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5}   B) [4,   -2]
C) [-3, 3]   D) [-3, 4]

Answer: D

97) Find the domain.

97)

A) [-5, 5]   B) [-3, 3]
C) [-18, 18]   D) all real numbers
Answer: B
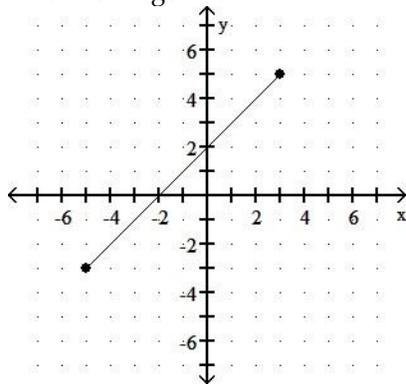
98) Find the domain.   98) _____

A) [-4, 4]   B) [-5, 5]   C) (-5, 5)   D) [-5, 5)
Answer: D

99) Find the range.   99) _____

A) {2, 3, 4, 5}   B) {-5, -3, -1, 1, 3}   C) [2, 5]   D) [-5, 3]
Answer: A

The graph of a function f is provided. Determine the requested function value.

100) f(-2)
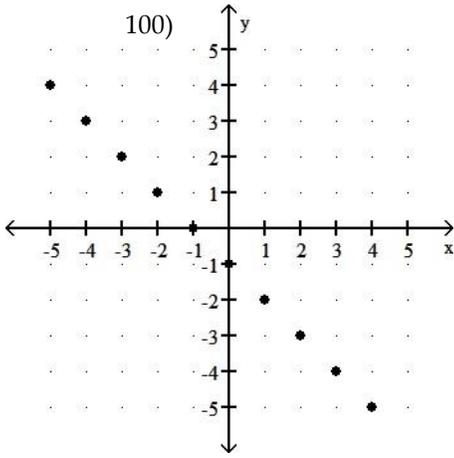
100)

A) -1   B) 3   C) -3   D) 1

Answer: D

___

101) f(-1)

101) ____

A) 4   B) -4   C) -1   D) 2

Answer: B

102) f(4)

102) ____
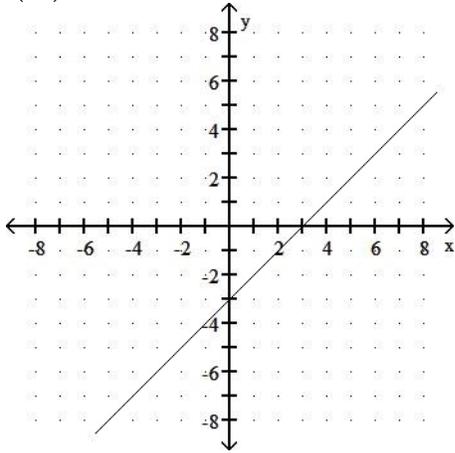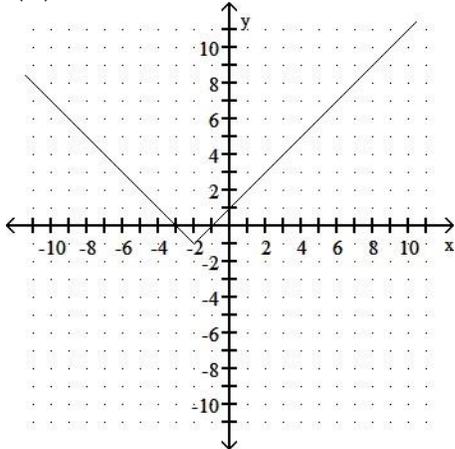
A) 7   B) 5   C) 1   D) 3

Answer: B

103) f(-3)

103)

___
-
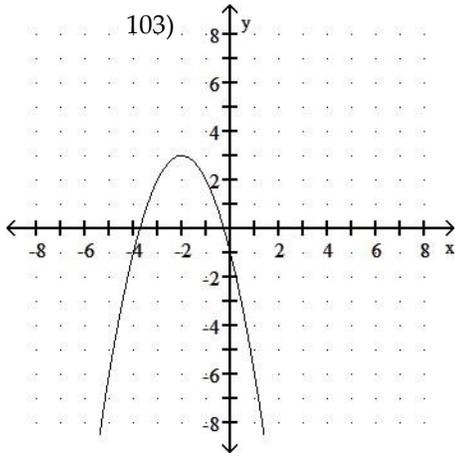
A) -6   B) -4   C) 2   D) 4

Answer: C

104) f(1)   104) _____
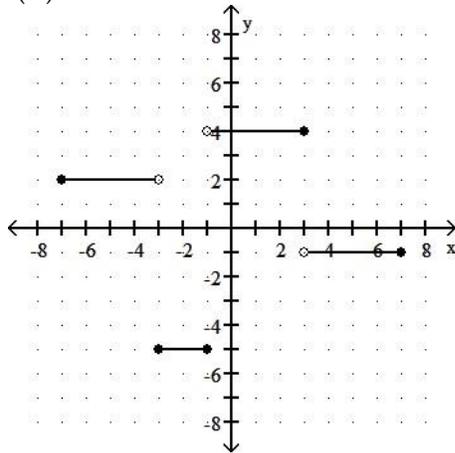
A) 4   B) -1   C) 1   D) -5

Answer: A

A function f is depicted in the graph. Find any input values that produce the indicated output.

105) f(x) = -2   105) _____
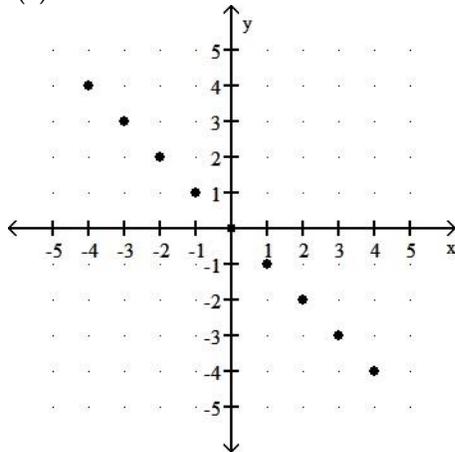
A) -2   B) 4   C) 3   D) 2

Answer: D

106) f(x) = 3
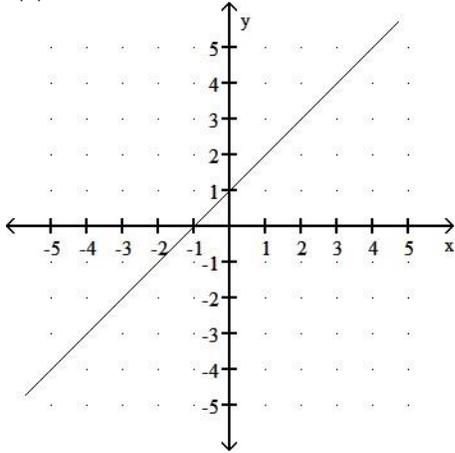
A) 4 B) -2 C) 2 D) -1

Answer: C

107) f(x) = 2
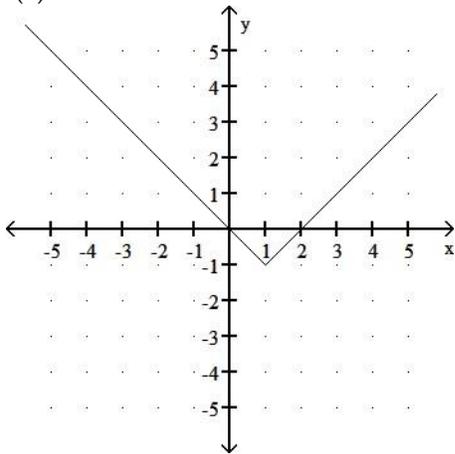
A) x = -2 B) x = 2 and x = -4 C) x = 2 and x = 0 D) x = -2 and x = 4

Answer: D

108) f(x) = 0
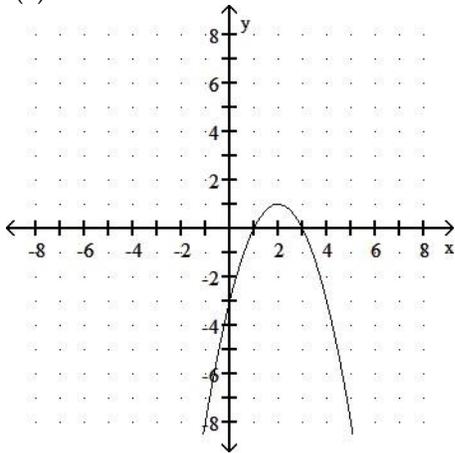
A) x = 1 B) x = 3 and x = 1 C) x = 0 and x = 4 D) x = 3

106) _____

107) _____

108) _____

Answer: B

109) f(x) =   4   109) _____
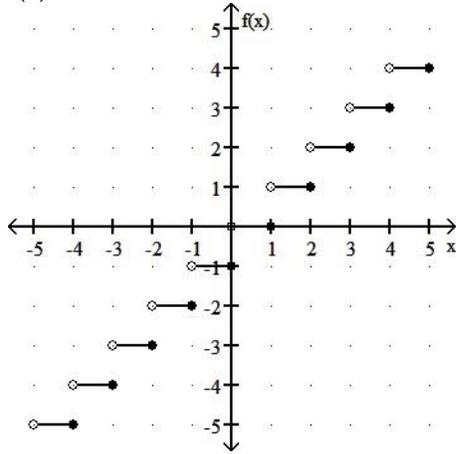
    A) {x| 4 < x ≤ 5}   B) 5   C) {x| 4 < x < 5}   D) {x| 4 ≤ x ≤ 5}

Answer: A

Find the domain.

110) $f(x) = \dfrac{-5}{x-2}$ 110) _____

    A) {x| x is a real number and x ≠ -5}   B) {x| x is a real number and x ≠ -2}
    C) {x| x is a real number and x ≠ 5}   D) {x| x is a real number and x ≠ 2}

Answer: D

111) $f(x) = \dfrac{-1}{-6-x}$ 111) _____

    A) {x| x is a real number and x ≠ 1}   B) {x| x is a real number and x ≠ 6}
    C) {x| x is a real number and x ≠   -6}   D) {x| x is a real number and x ≠ -1}

Answer: C

112) f(x) =   -2x   + 9   112) _____

    A) {x| x is a real number and x ≠ 4.5}   B) {x| x is a real number and x ≠ 9}
    C) All real numbers   D) {x| x is a real number and x ≠ -2}

Answer: C

113) f(x) =   6x   + 9   113) _____

    A) All real numbers
    B) {x| x is a real number and x ≠ -2.25}
    C) {x| x is a real number and x ≠ -0.44444444}
    D) {x| x is a real number and x ≠   -4}

Answer: A

114) $f(x) = x^2 + 6$ 114) _____

    A) {x| x is a real number and x ≠ $\sqrt{6}$}   B) {x| x is a real number and x ≠ -6}
    C) All real numbers   D) {x| x is a real number and x ≠ 6}

Answer: C

115) f(x) = |-2x   + 5| 115) _____

    A) {x| x is a real number and x ≠ 0.4}   B) {x| x is a real number and x ≠ 2.5}

C) All real numbers   D) {x| x is a real number and x ≠ -5}

Answer: C

116) $f(x) = \dfrac{1}{|85 - x|}$

116) _____

A) {x| x is a real number and x ≠ -85}   B) {x| x is a real number and x <   85}
C) All real numbers   D) {x| x is a real number and x ≠   85}

Answer: D

117) $f(x) = x^3 + 7$

117) _____

A) All real numbers   B) {x| x is a real number and x ≠ $\sqrt[3]{7}$}

C) {x| x is a real number and x ≠ 7}   D) {x| x is a real number and x ≠ -7}

Answer: A

Find the function value.

118) f(1)

118) _____
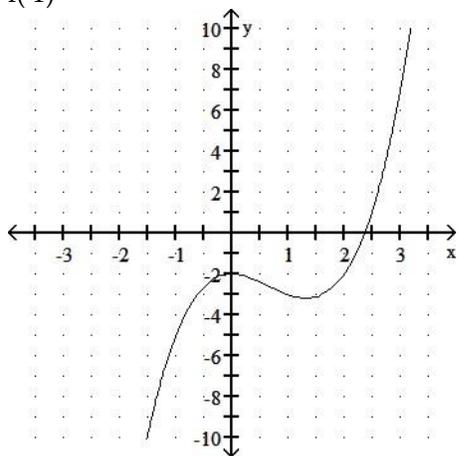
A) -5   B) -3   C) -1   D) -2

Answer: B

119) f(1)

119) _____
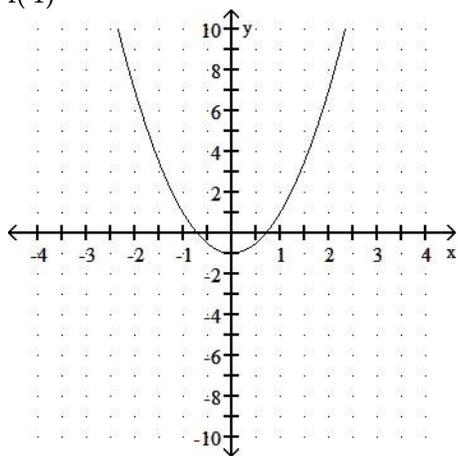
A) 3   B) 2   C) -1   D) 1

Answer: D

1)
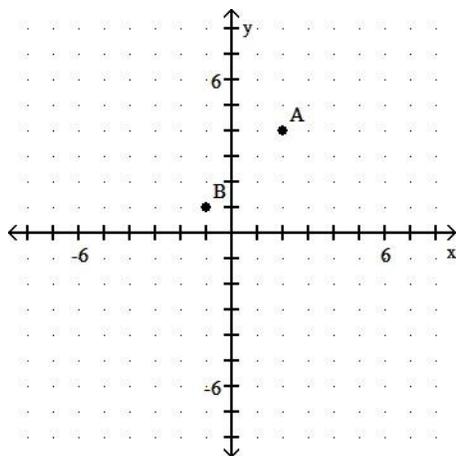
2)
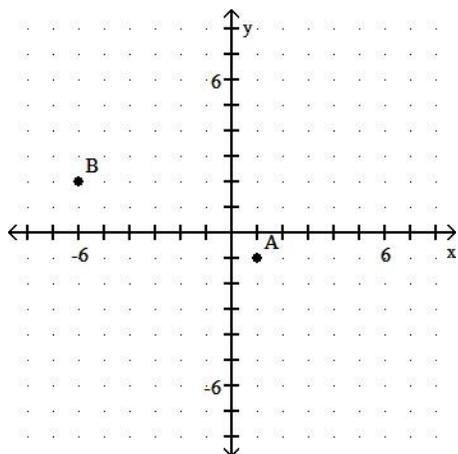
3)
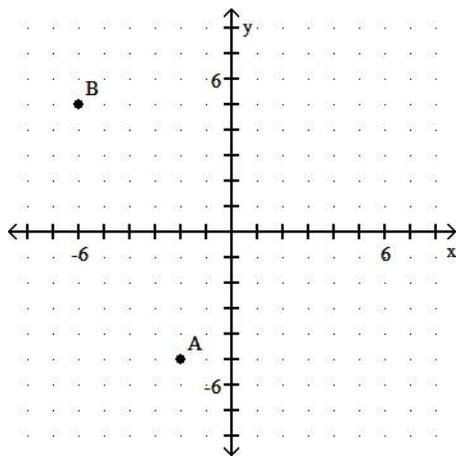
4)
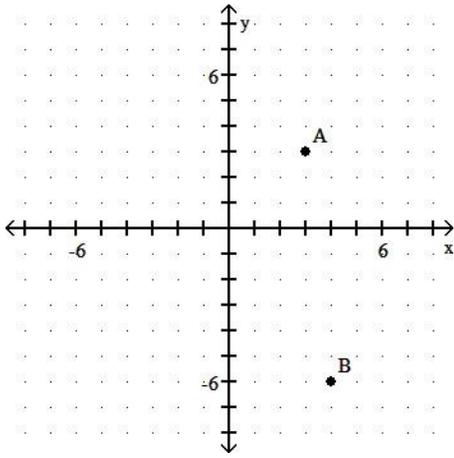
5)
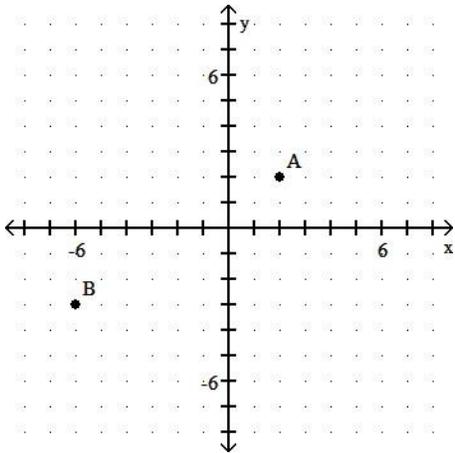
6)
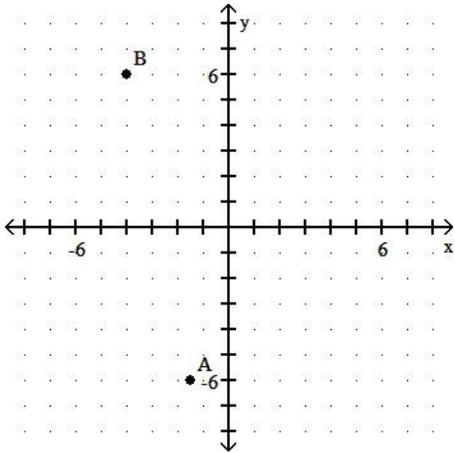
7)
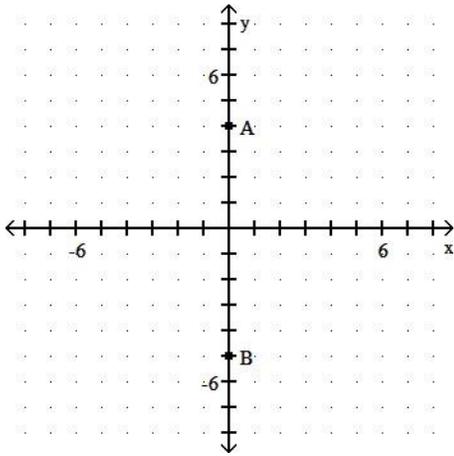
8)
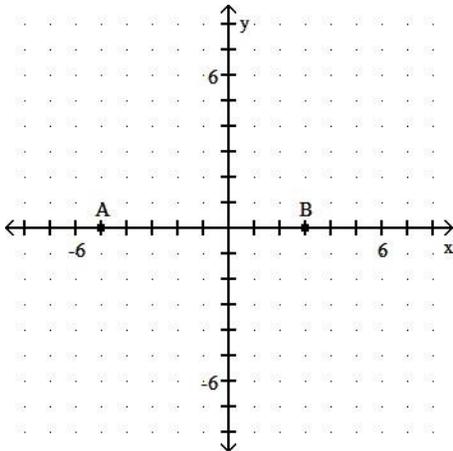
9) B

10) A

11) B

12) B

13) B

14) B

15) A

16) B

17) Show that (7,   5) is a solution:

    y = x -   2

     5 =?   7 -   2

     5 =?   5   TRUE

   Show that (-2,   -4) is a solution:

    y = x -   2

     -4 =?   -2 -   2

     -4 =?   -4   TRUE

   Coordinates of the additional solution may vary but should satisfy $y = x - 2.$

18) Show that (2,   3) is a solution:

    y = x +   1

     3 =?   2 +   1

     3 =?   3   TRUE

   Show that (-4,   -3) is a solution:

    y = x +   1

     -3 =?   -4 +   1

     -3 =?   -3   TRUE

   Coordinates of the additional solution may vary but should satisfy $y = x + 1.$

19) Show that (4,   5) is a solution:

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

$$5 =? \ \frac{1}{2}(4) + \ 3$$

5 =?   2 +   3

5 =?   5   TRUE

Show that (-6,   0) is a solution:

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

$$0 =? \ \frac{1}{2}(-6) + \ 3$$

0 =?   -3 +   3

0 =?   0   TRUE

Coordinates of the additional solution may vary but should satisfy $y = \frac{1}{2}x + 3.$

20) Show that (2,   -2) is a solution:

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

$$-2 =? \ \frac{1}{2}(2) - \ 3$$

-2 =?   1 -   3

-2 =?   -2   TRUE

Show that (-4,   -5) is a solution:

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

$$-5 =? \ \frac{1}{2}(-4) - \ 3$$

-5 =?   -2 -   3

-5 =?   -5   TRUE

Coordinates of the additional solution may vary but should satisfy $y = \frac{1}{2}x - 3.$

21) Show that (2,   3) is a solution:

2x + y   =   7

2(2) +   3   =?   7

4 +   3 =?   7

7   =?   7   TRUE

Show that (6,   -5) is a solution:

2x + y   =   7

2(6) + (-5)   =?   7

12 + (-5)   =?   7

7   =?   7   TRUE

Coordinates of the additional solution may vary but should satisfy $2x + y = 7.$

22) Show that (4,   2) is a solution:

x + 2y   = 8

4 + 2(2)   =? 8

4 +   4 =? 8

8   =? 8   TRUE

Show that (-6,   7) is a solution:

x +   2(7)   =? 8
2y =   -6 +   14   =? 8
8   8   =? 8   TRUE
-6 +   Coordinates of the additional solution may vary but should satisfy $x + 2y = 8$.

23) Show that (0,   -3) is a solution:

6x - 2y = 6

6(0) - 2(-3)   =?   6

0 - (-6)=?   6

6   =? 6   TRUE

Show that (3,   6) is a solution:

6x - 2y = 6

6(3) - 2(6)   =?   6

18 -   12   =?   6

6   =? 6   TRUE

Coordinates of the additional solution may vary but should satisfy $6x - 2y = 6$.

24) Show that (0,   -3) is a solution:

3x - 3y = 9

3(0) - 3(-3)   =?   9

0   + 9 =?   9

9   =? 9   TRUE

Show that (2,   -1) is a solution:

3x - 3y = 9

3(2) - 3(-1)   =?   9

6 - (-3)=?   9

9   =? 9   TRUE

Coordinates of the additional solution may vary but should satisfy $3x - 3y = 9$.

25) C
26) A
27) B
28) C
29) C
30) C
31) C
32) C
33) B
34) C
35) D
36) C
37) D
38) A
39) C
40) D
41) D
42) A
43) A
44) A
45) B
46) B
47) B
48) B
49) B
50) B

51) B
52) A
53) B
54) C
55) D
56) C
57) B
58) A
59) D
60) B
61) B
62) C
63) C
64) A
65) C
66) D
67) A
68) B
69) A
70) D
71) B
72) A
73) D
74) C
75) B
76) B
77) B
78) D
79) B
80) B
81) A
82) B
83) B
84) B
85) B
86) B
87) D
88) A
89) C
90) A
91) A
92) B
93) B
94) D
95) C
96) D
97) B
98) D
99) A
100) D
101) B
102) B

103) C
104) A
105) D
106) C
107) D
108) B
109) A
110) D
111) C
112) C
113) A
114) C
115) C
116) D
117) A
118) B
119) D