

***Finite Mathematics with Applications In the
Management Natural and Social Sciences 12th
edition Lial Test Bank***

SKU: 9780134767611-TEST-BANK

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

Determine whether the given ordered pair is a solution of the given equation.

1) $5x + y = 12$; (2, 2)

A) Yes

B) No

Answer: A

2) $3x + 2y - 25 = 0$; (5, 5)

A) Yes

B) No

Answer: A

3) $5x - 2y = 31$; (5, 3)

A) Yes

B) No

Answer: B

4) $x^2 + y^2 - 4x + 8y = -12$; (4, -2)

A) Yes

B) No

Answer: A

5) $x^2 + y^2 - 4x + 5y = 6$; (4, -1)

A) No

B) Yes

Answer: A

6) $(x - 8)^2 + (y + 3)^2 = 50$; (1, -2)

A) Yes

B) No

Answer: A

7) $(x - 5)^2 + (y + 4)^2 = -8$; (4, -1)

A) Yes

B) No

Answer: B

8) $\frac{x^2}{6} + \frac{y^2}{3} = 1$; (1, -1)

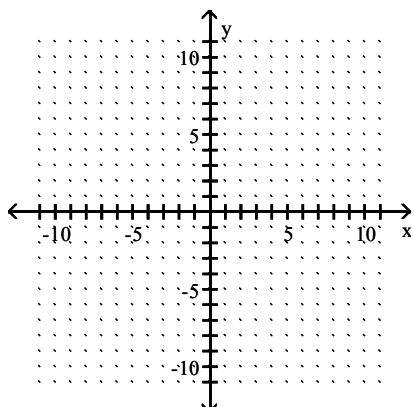
A) Yes

B) No

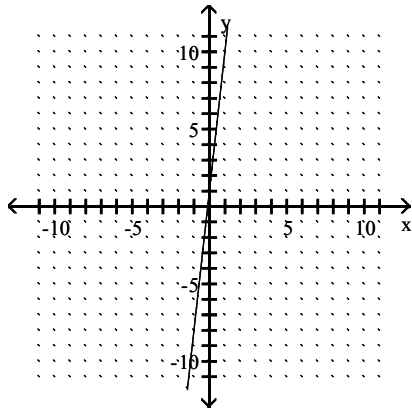
Answer: B

Graph the linear equation.

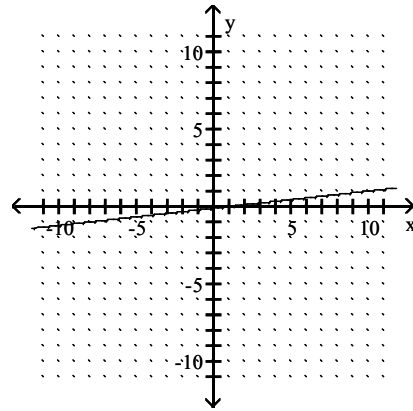
9) $9y = x + 1$



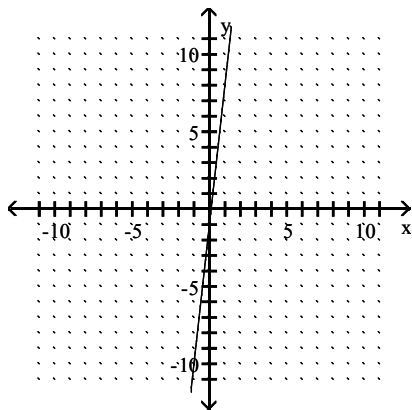
A)



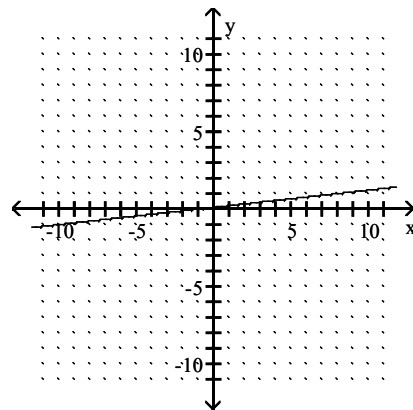
B)



C)

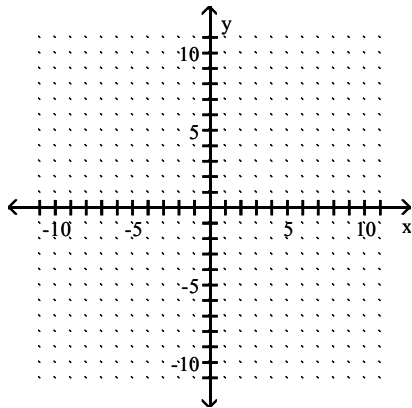


D)

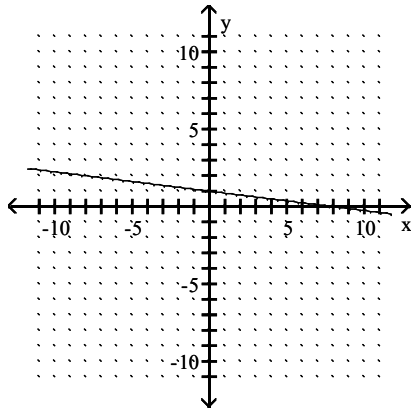


Answer: D

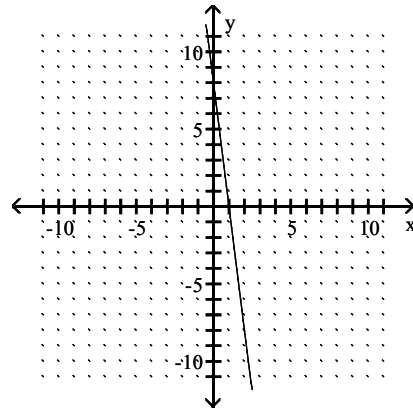
10) $-x = 8y - 8$



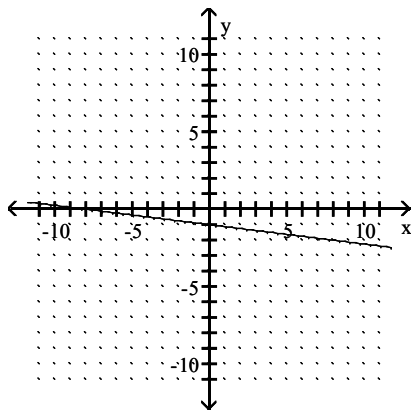
A)



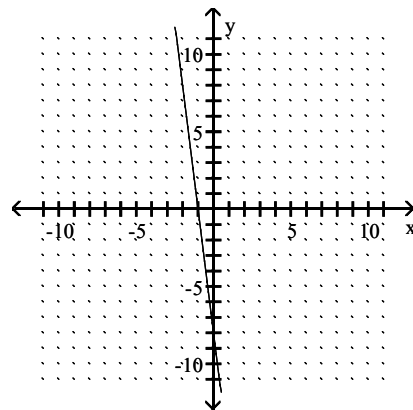
B)



C)

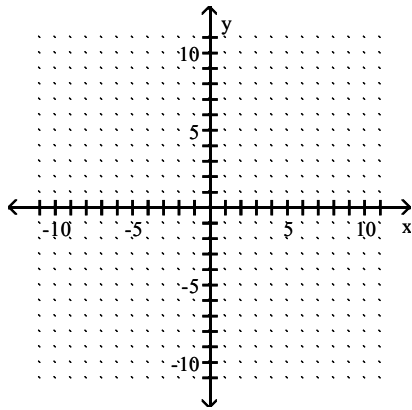


D)

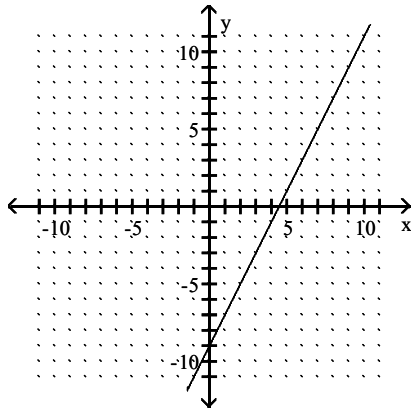


Answer: A

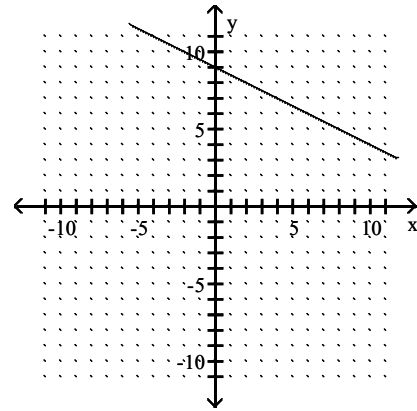
11) $5y - 10x = -45$



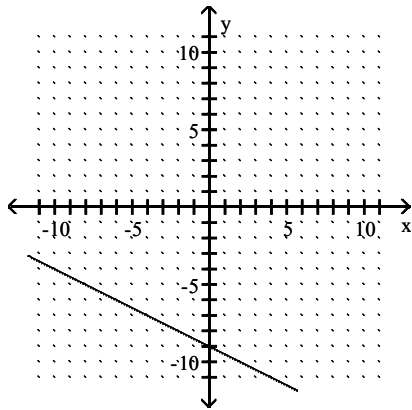
A)



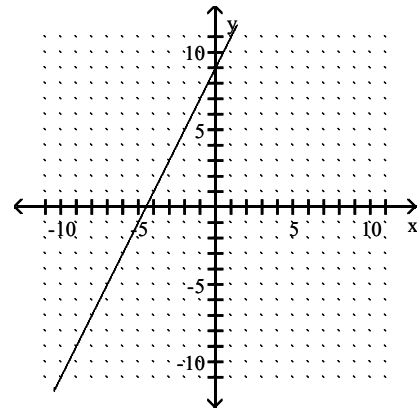
B)



C)

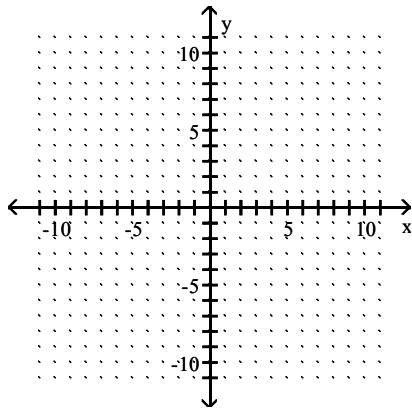


D)

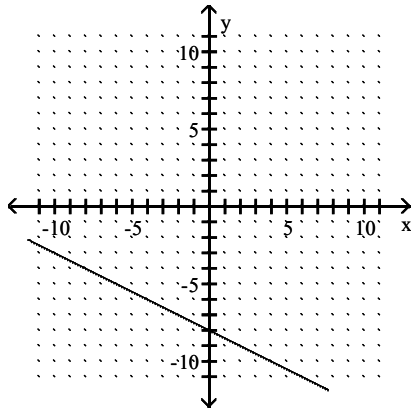


Answer: A

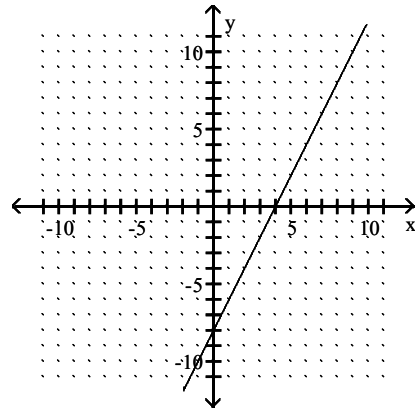
12) $2x = y - 8$



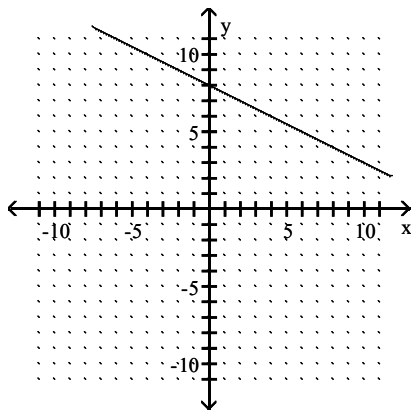
A)



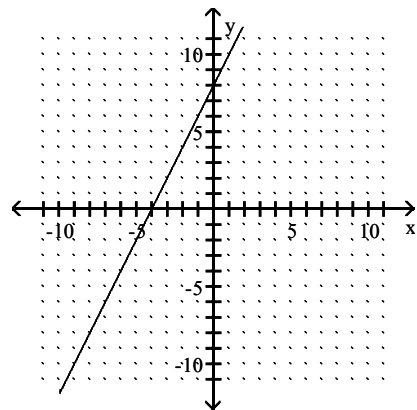
B)



C)

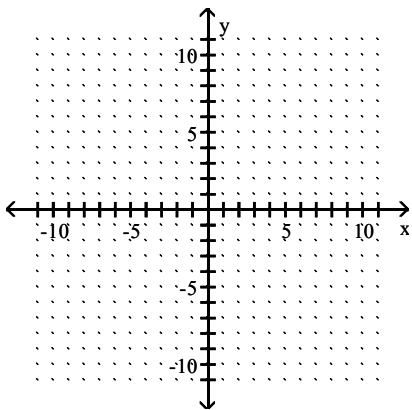


D)

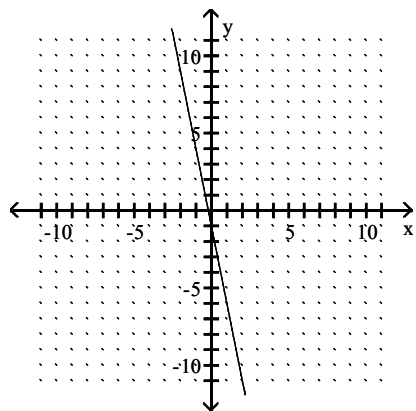


Answer: D

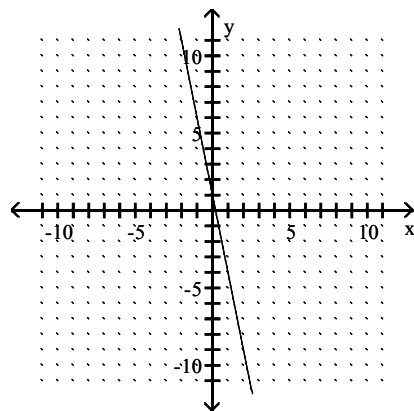
13) $-15y = 3x + 3$



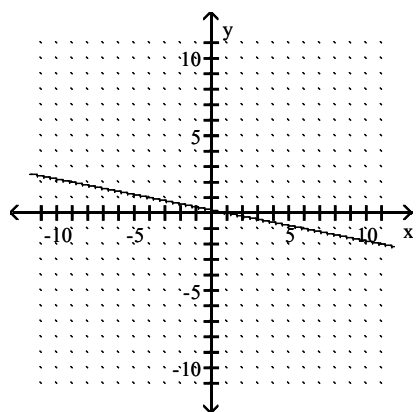
A)



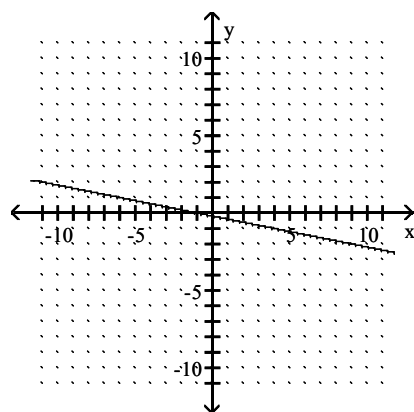
B)



C)

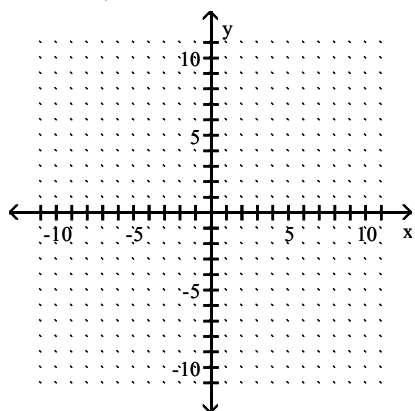


D)

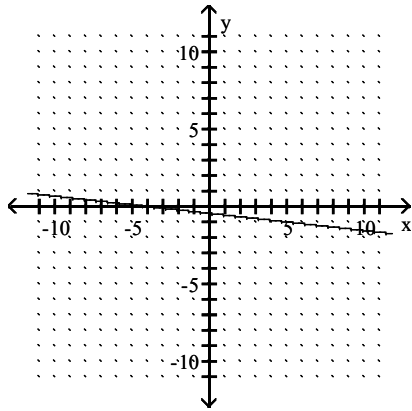


Answer: D

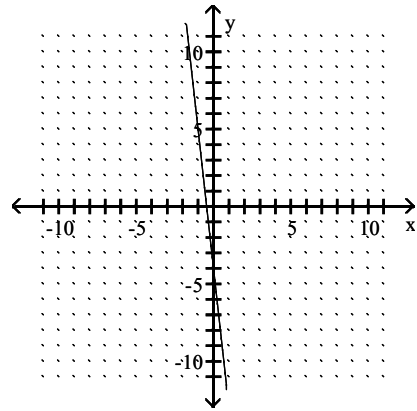
14) $-3x - 27y = 12$



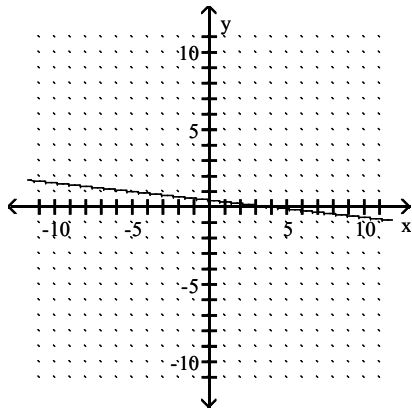
A)



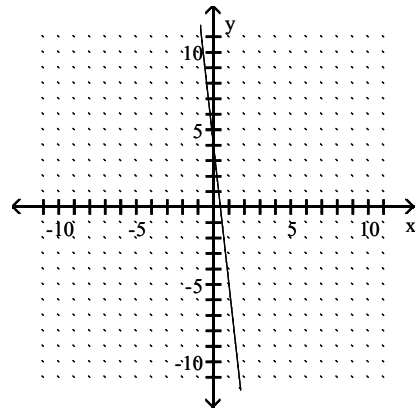
B)



C)

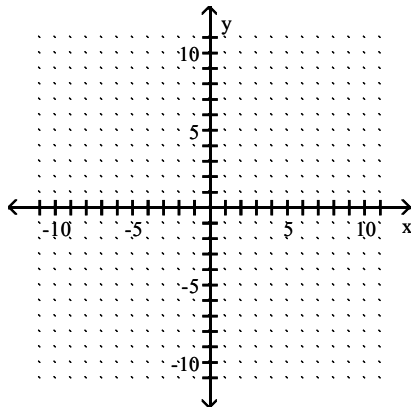


D)

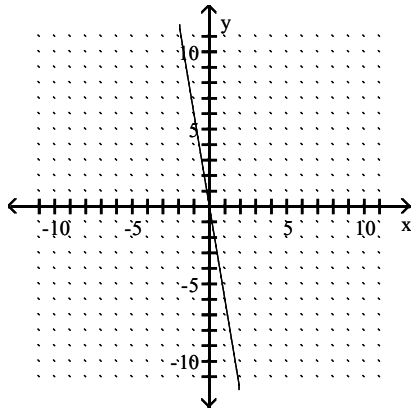


Answer: A

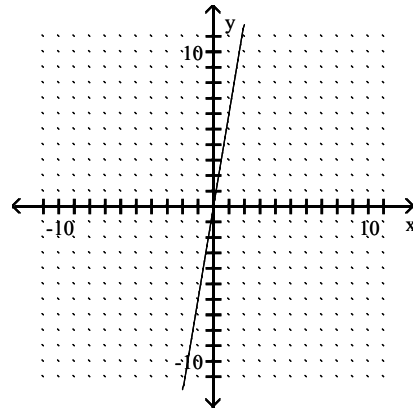
15) $6x - y = 0$



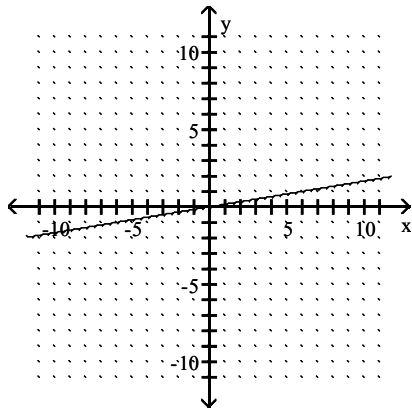
A)



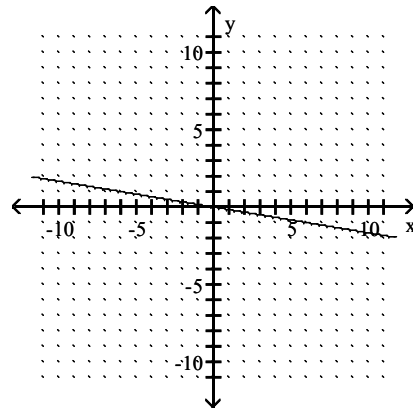
B)



C)

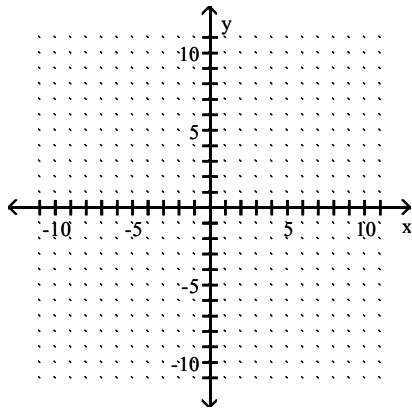


D)

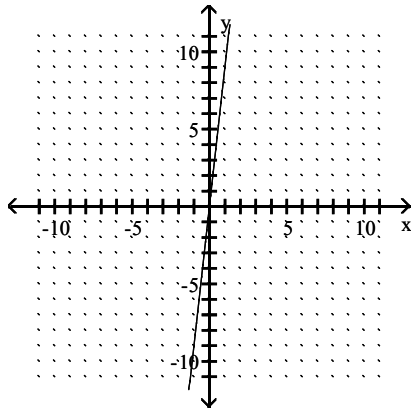


Answer: B

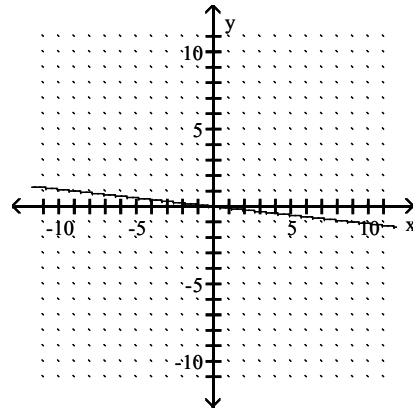
16) $9x + y = 0$



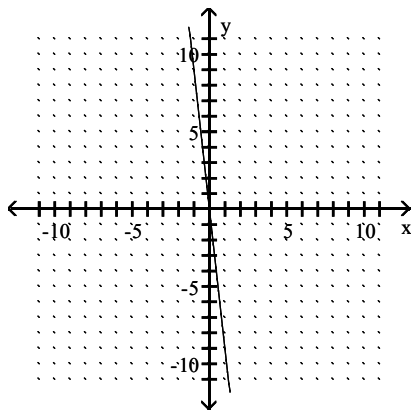
A)



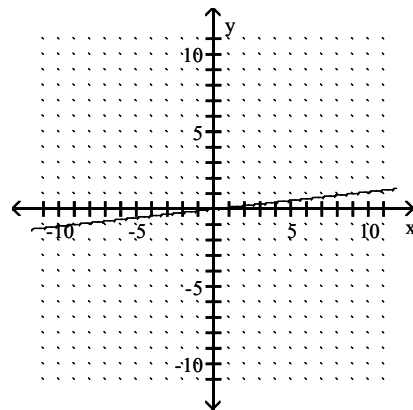
B)



C)

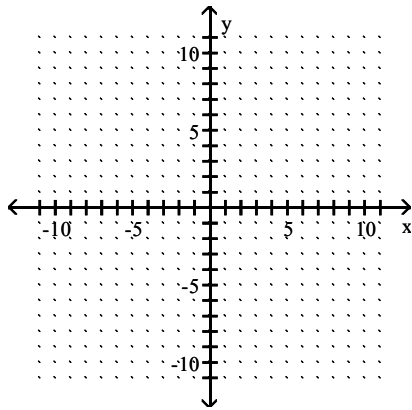


D)

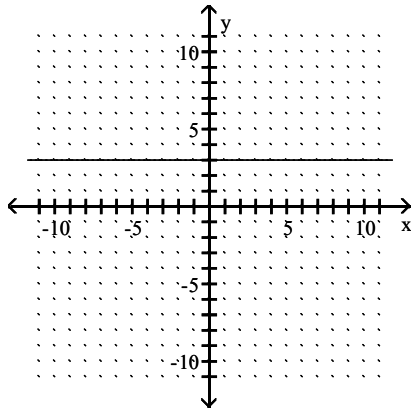


Answer: C

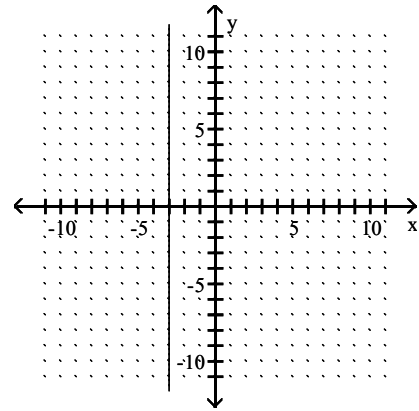
17) $y + 3 = 0$



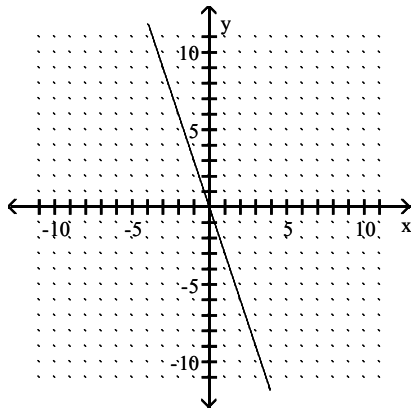
A)



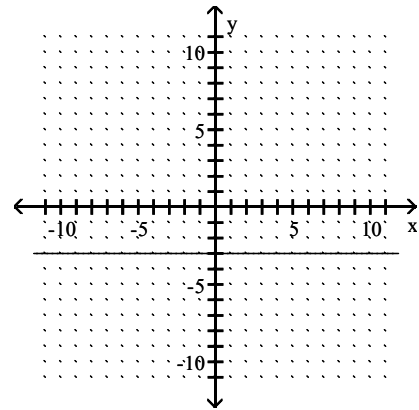
B)



C)

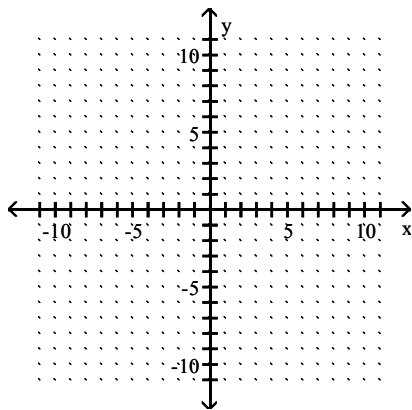


D)

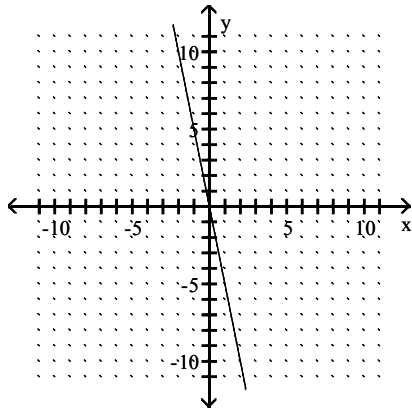


Answer: D

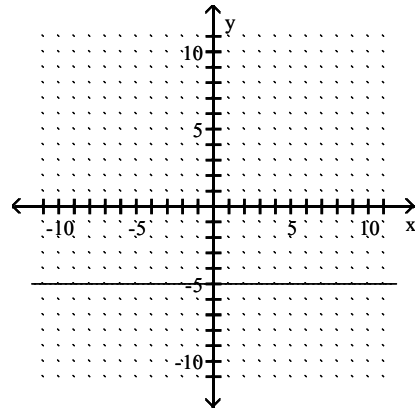
18) $x = -5$



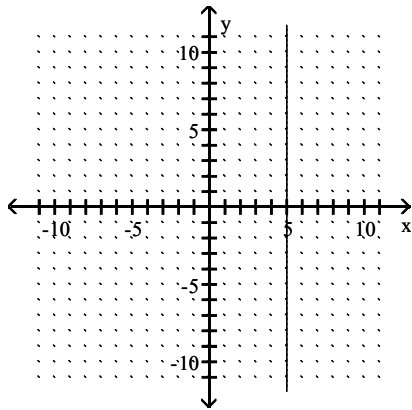
A)



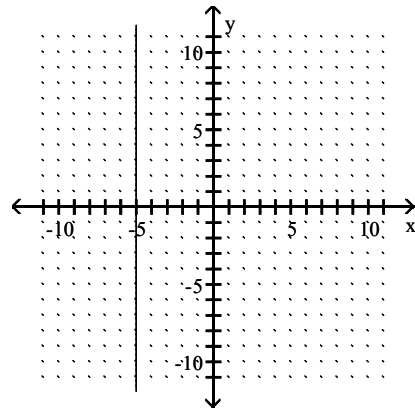
B)



C)



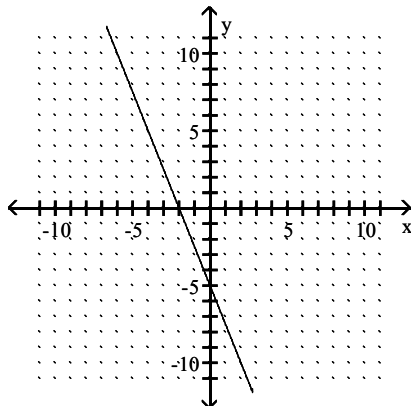
D)



Answer: D

Give the x-intercepts and y-intercepts of the graph.

19)



A) x-intercept: 5; y-intercept: 2

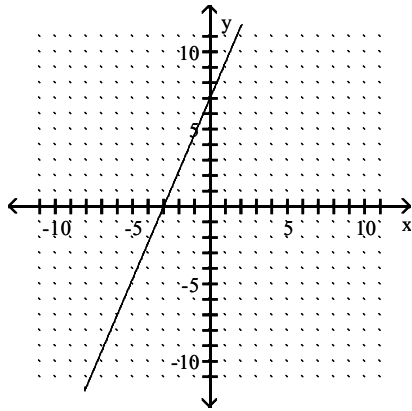
C) x-intercept: -5; y-intercept: -2

B) x-intercept: 2; y-intercept: 5

D) x-intercept: -2; y-intercept: -5

Answer: D

20)

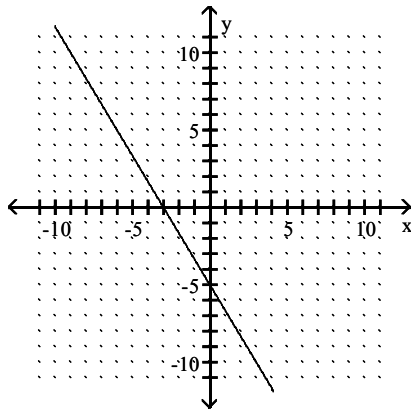


- A) x-intercept: 7; y-intercept: -3
C) x-intercept: -7; y-intercept: 3

- B) x-intercept: -3; y-intercept: 7
D) x-intercept: 3; y-intercept: -7

Answer: B

21)

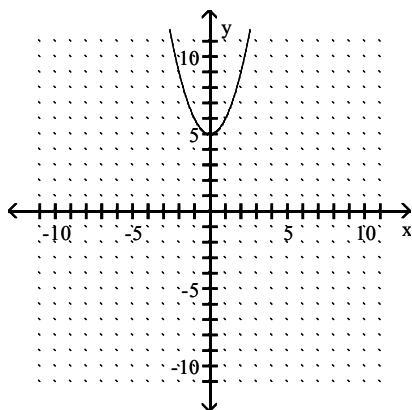


- A) x-intercept: 5; y-intercept: 3
C) x-intercept: 3; y-intercept: 5

- B) x-intercept: -5; y-intercept: -3
D) x-intercept: -3; y-intercept: -5

Answer: D

22)



- A) x-intercept: -5

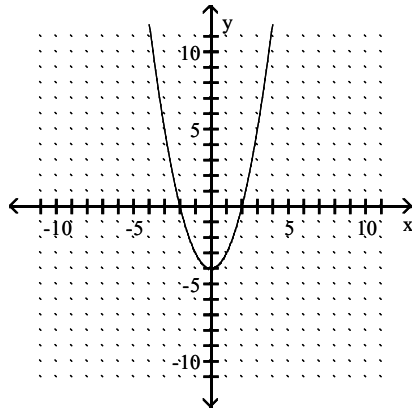
- B) y-intercept: -5

- C) y-intercept: 5

- D) x-intercept: 5

Answer: C

23)



A) x-intercepts: -2, 2; y-intercept: -4

C) x-intercept: -2; y-intercepts: 4

Answer: A

B) x-intercept: 4; y-intercepts: -2, 2

D) x-intercept: 2; y-intercepts: -4

Find the x-intercepts and y-intercepts of the graph of the equation.

24) $x + y = 5$

A) x-intercept: 5; y-intercept: 5

C) x-intercept: 2; y-intercept: 3

Answer: A

B) x-intercept: 5; y-intercept: 3

D) x-intercept: 3; y-intercept: 2

25) $x + y = 0$

A) x-intercept: 0; y-intercept: -1

C) x-intercept: -1; y-intercept: 1

Answer: B

B) x-intercept: 0; y-intercept: 0

D) x-intercept: 1; y-intercept: -1

26) $2x + y = 6$

A) x-intercept: 3; y-intercept: 6

C) x-intercept: 6; y-intercept: 3

Answer: A

B) x-intercept: -6; y-intercept: 6

D) x-intercept: 6; y-intercept: -6

27) $4x + y = -8$

A) x-intercept: -2; y-intercept: -8

C) x-intercept: -8; y-intercept: -2

Answer: A

B) x-intercept: 8; y-intercept: -4

D) x-intercept: -4; y-intercept: 8

28) $-2x + y = 0$

A) x-intercept: -0; y-intercept: 0

C) x-intercept: -4; y-intercept: -8

Answer: A

B) x-intercept: -8; y-intercept: -4

D) x-intercept: 0; y-intercept: -0

29) $-3x + 3y = 9$

A) x-intercept: -4; y-intercept: -3

C) x-intercept: -3; y-intercept: -4

Answer: B

B) x-intercept: -3; y-intercept: 3

D) x-intercept: 3; y-intercept: -3

30) $-4x - 4y = 8$

- A) x-intercept: -2; y-intercept: -2
C) x-intercept: -4; y-intercept: -3

Answer: A

- B) x-intercept: 2; y-intercept: 2
D) x-intercept: -3; y-intercept: -4

31) $y = x^2 + 1$

- A) x-intercept: 1; no y-intercepts
C) y-intercept: 1; no x-intercepts

Answer: C

- B) y-intercept: -1; x-intercept: 1
D) y-intercept: 0; no x-intercepts

32) $y = x^2 + 3$

- A) y-intercept: 0; no x-intercepts
C) y-intercept: 3; no x-intercepts

Answer: C

- B) y-intercept: 3; x-intercept: 0
D) x-intercept: 3; no y-intercepts

33) $y = x^2 - 7$

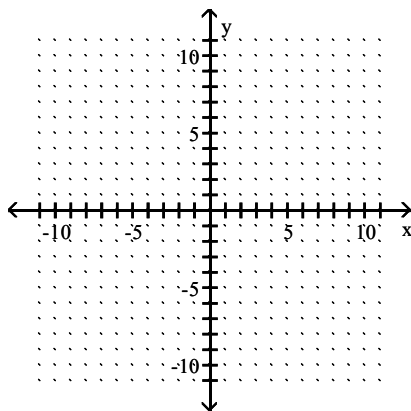
- A) y-intercept: 7; x-intercepts: $\sqrt{7}$ and $-\sqrt{7}$
C) y-intercept: -7; x-intercepts: $\sqrt{7}$ and $-\sqrt{7}$

Answer: C

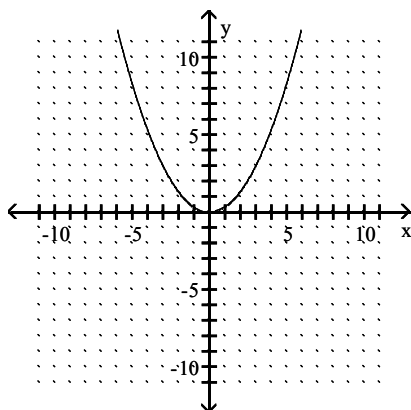
- B) y-intercept: -7; x-intercepts: 0 and $\sqrt{7}$
D) y-intercept: -7; x-intercept: $\sqrt{7}$

Sketch the graph of the equation.

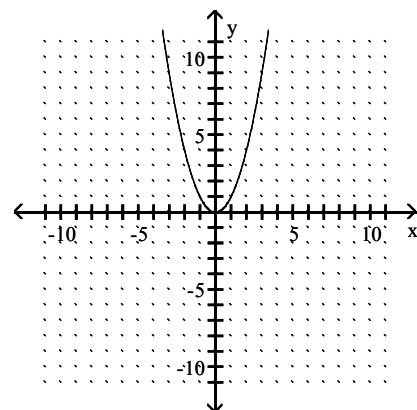
34) $y = 3x^2$



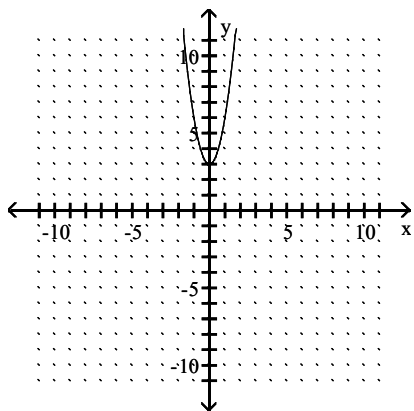
A)



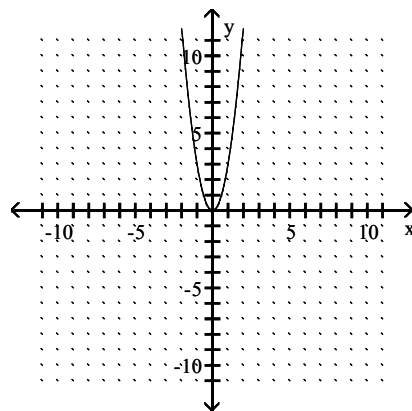
B)



C)

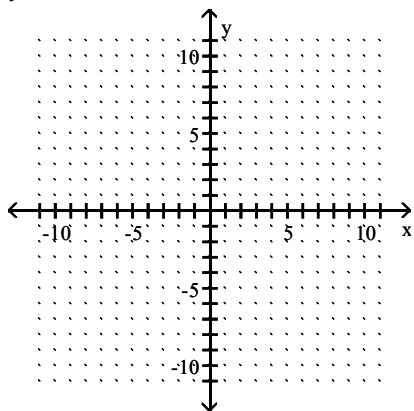


D)

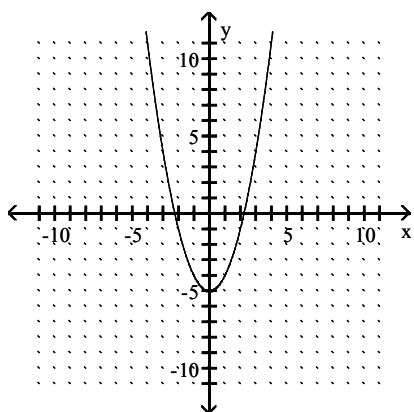


Answer: D

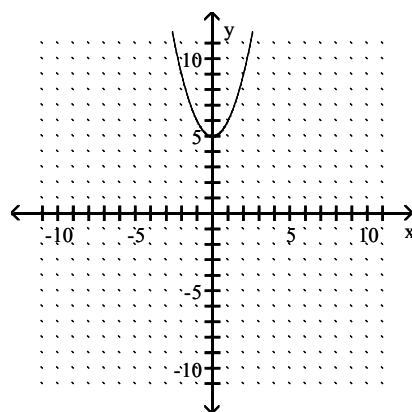
35) $y = x^2 - 5$



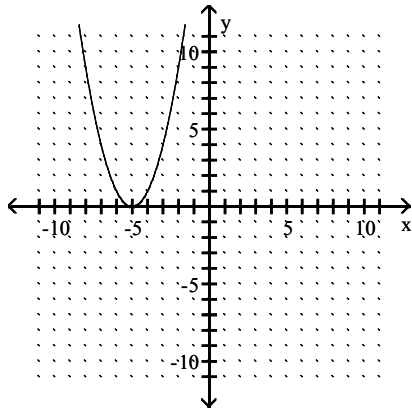
A)



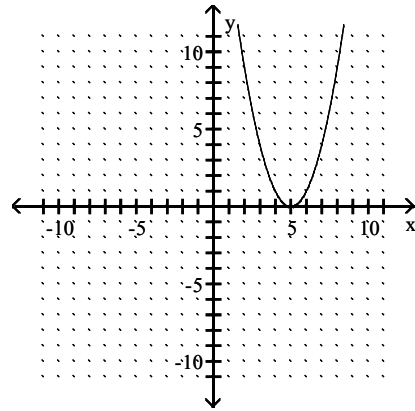
B)



C)

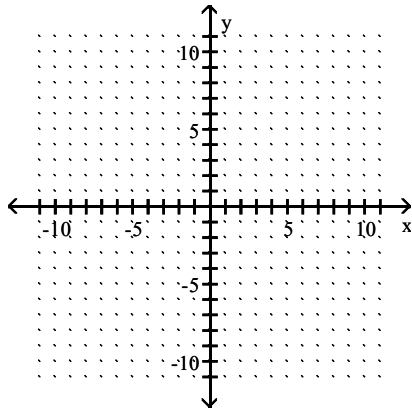


D)

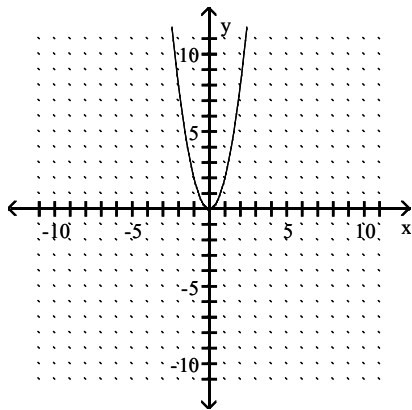


Answer: A

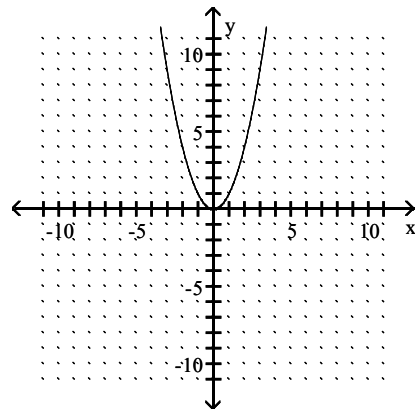
36) $y = \frac{1}{2}x^2$



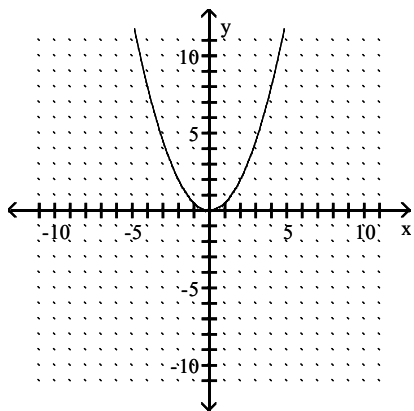
A)



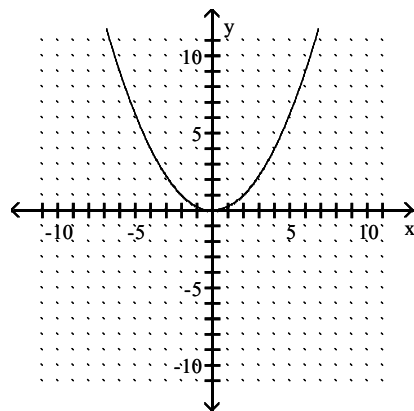
B)



C)

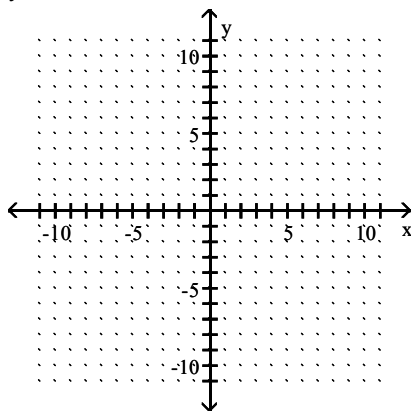


D)

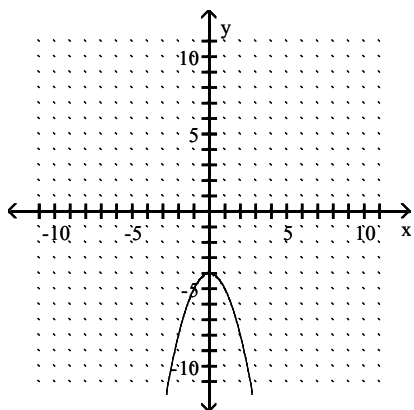


Answer: C

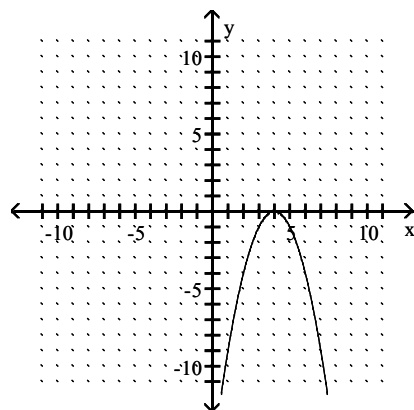
37) $y = -x^2 - 4$



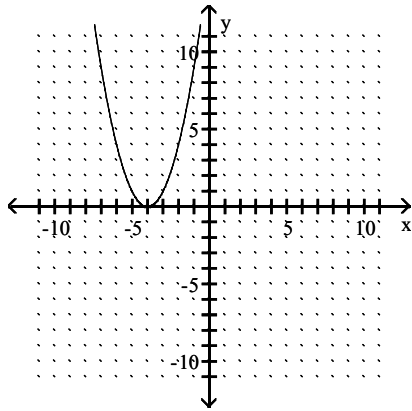
A)



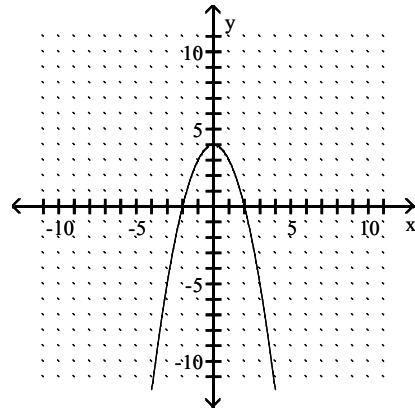
B)



C)

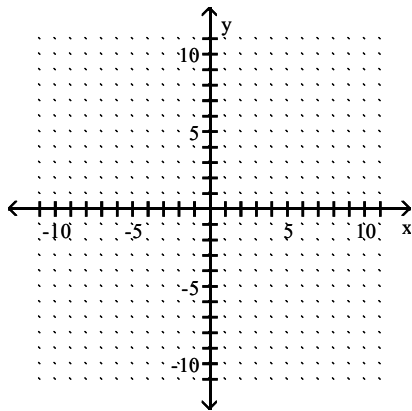


D)

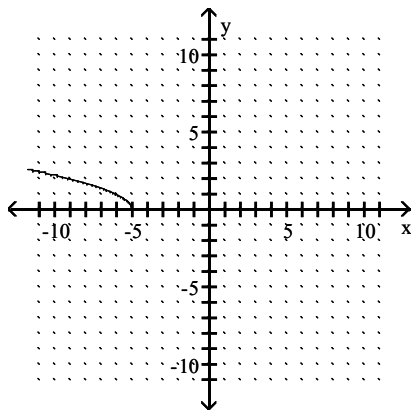


Answer: A

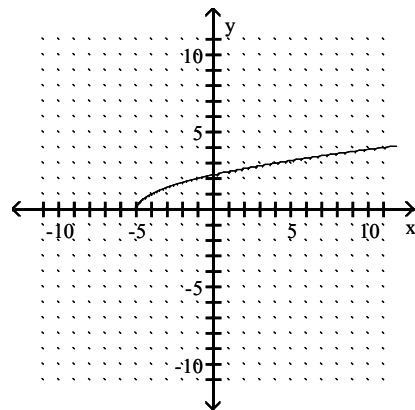
38) $y = \sqrt{x+5}$



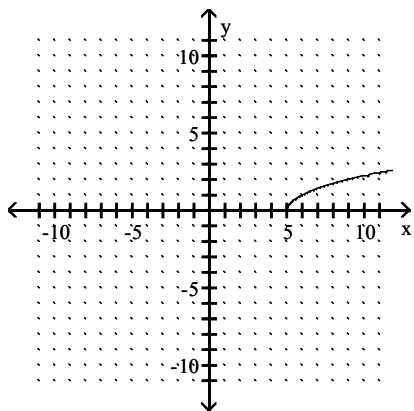
A)



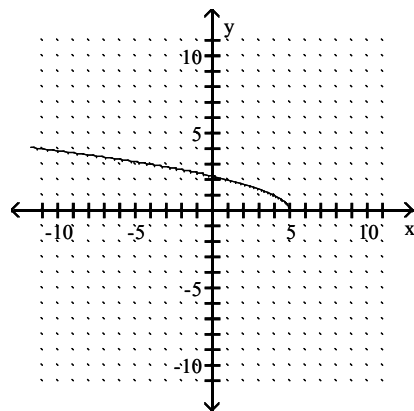
B)



C)

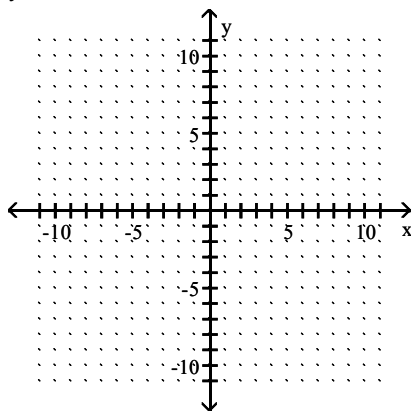


D)

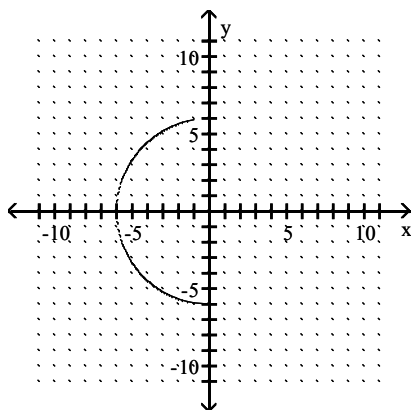


Answer: B

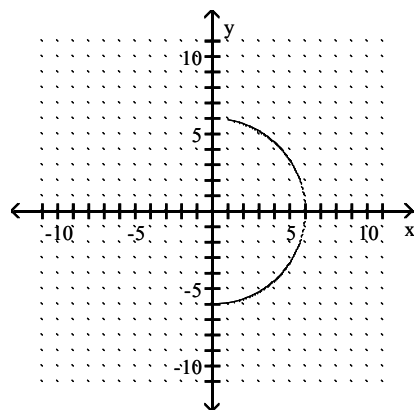
39) $y = -\sqrt{36 - x^2}$



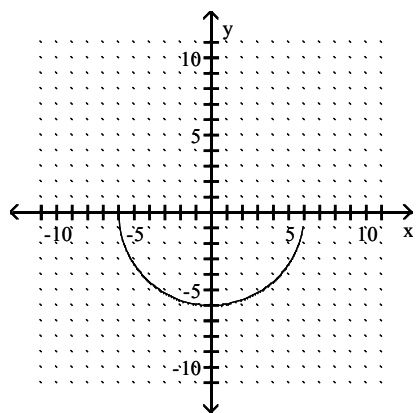
A)



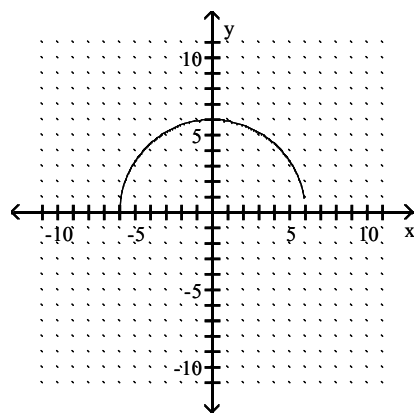
B)



C)

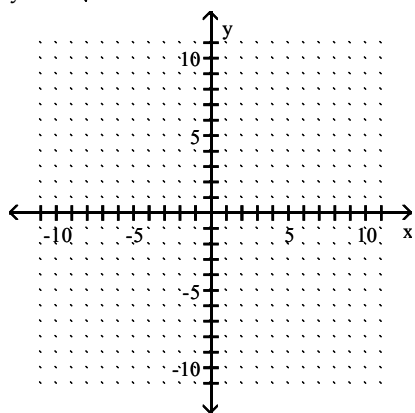


D)

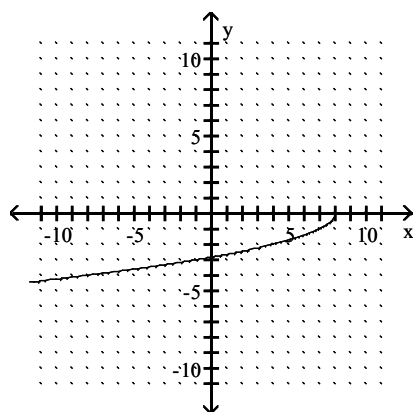


Answer: C

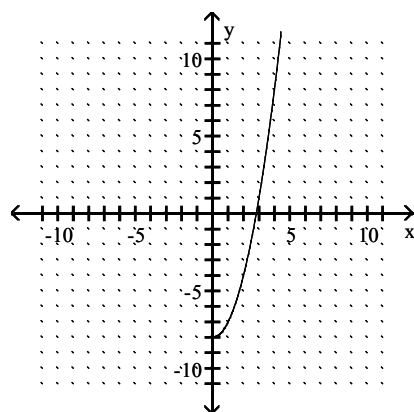
40) $y = -\sqrt{8-x}$



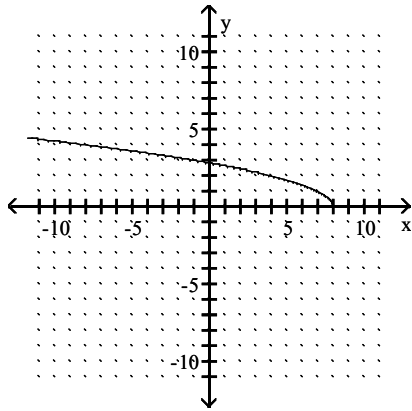
A)



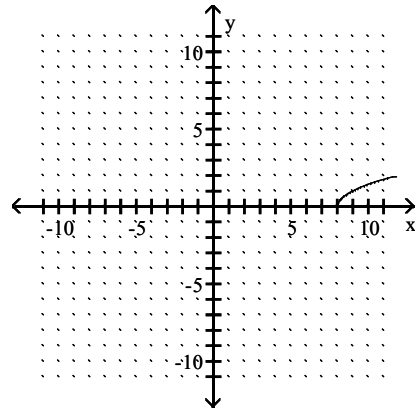
B)



C)

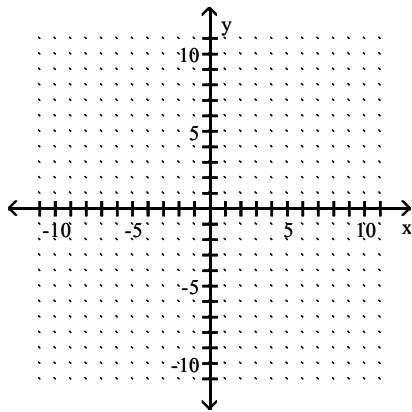


D)

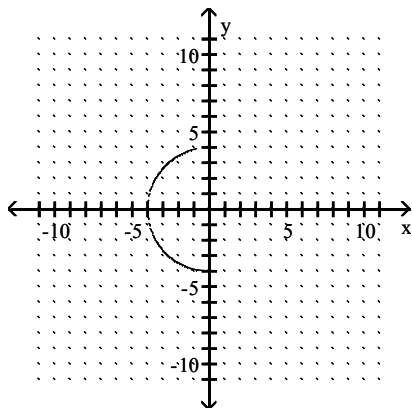


Answer: A

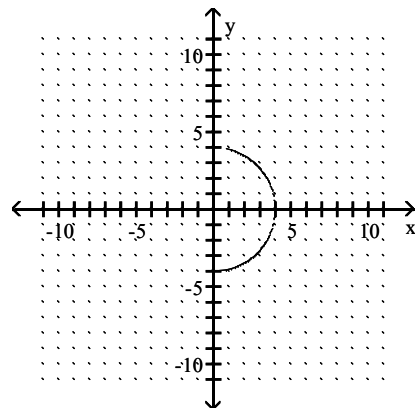
41) $y = \sqrt{16 - x^2}$



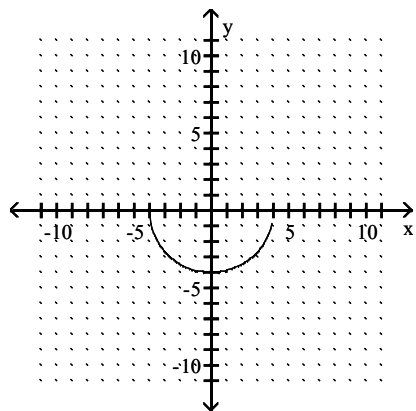
A)



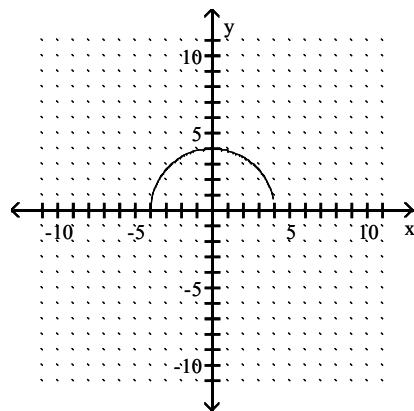
B)



C)

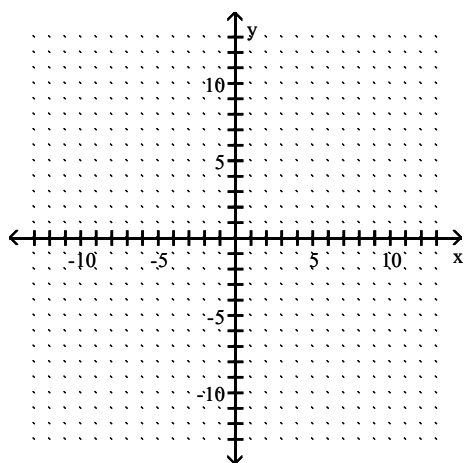


D)

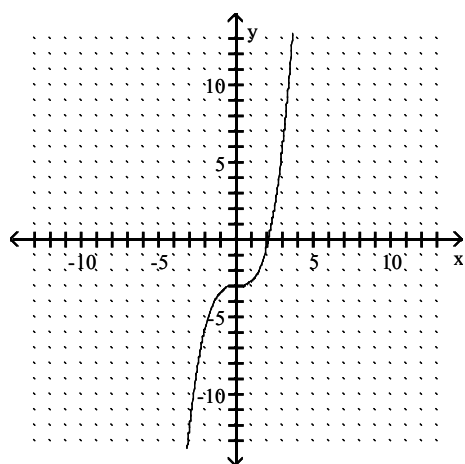


Answer: D

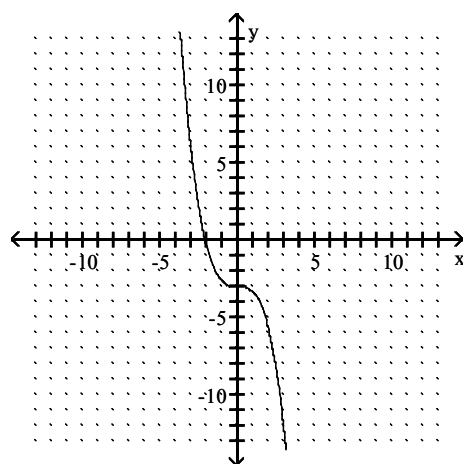
42) $y = \frac{1}{3}x^3 - 3$



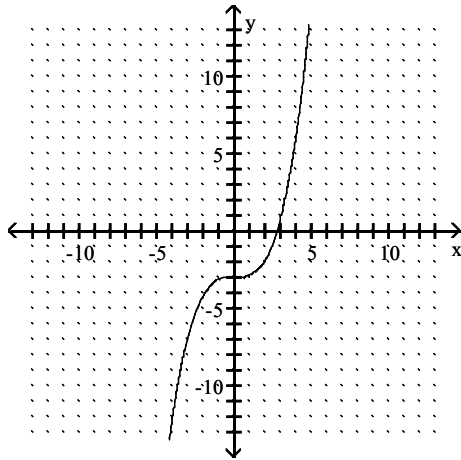
A)



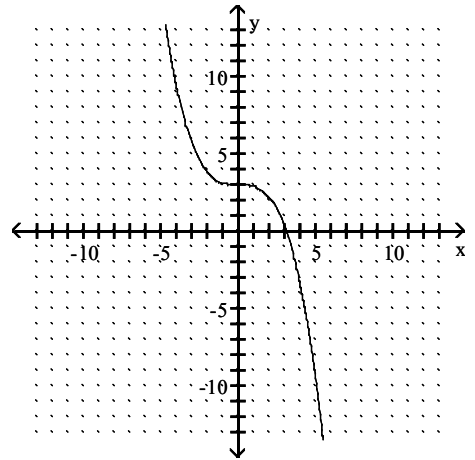
B)



C)

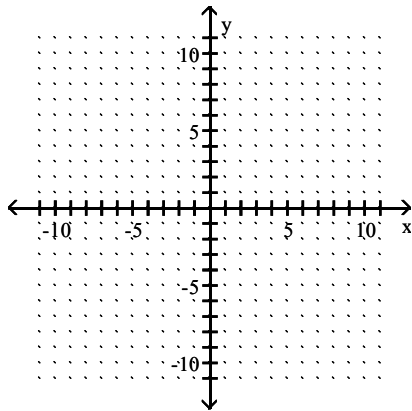


D)

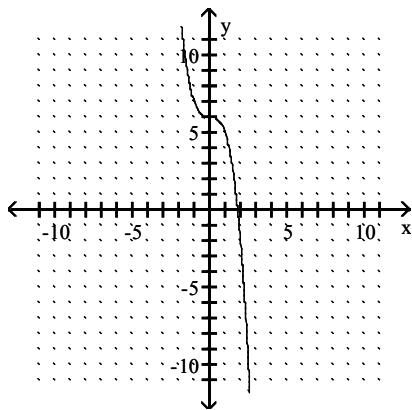


Answer: A

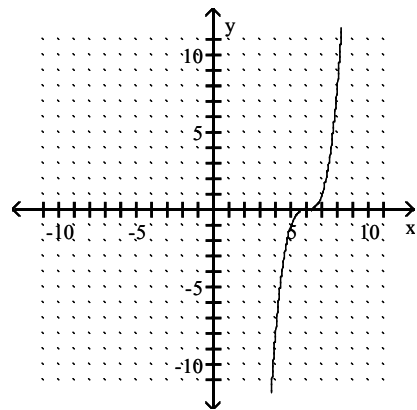
43) $y = x^3 + 6$



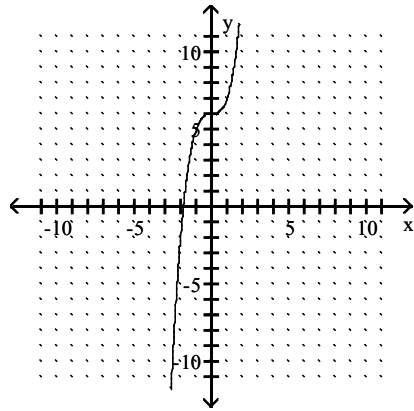
A)



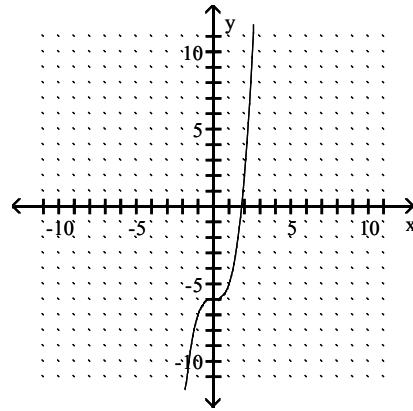
B)



C)



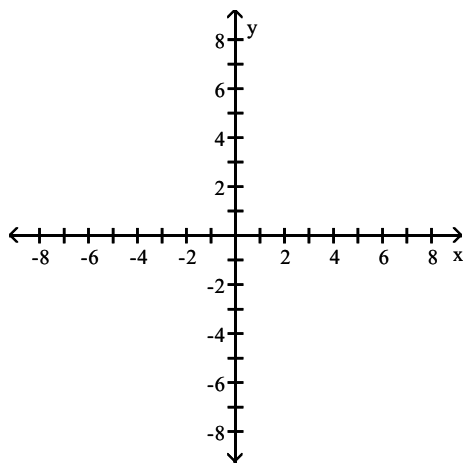
D)



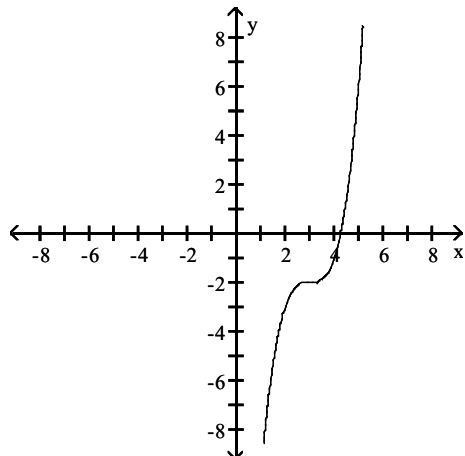
Answer: C

Use a graphing calculator to find the graph of the equation.

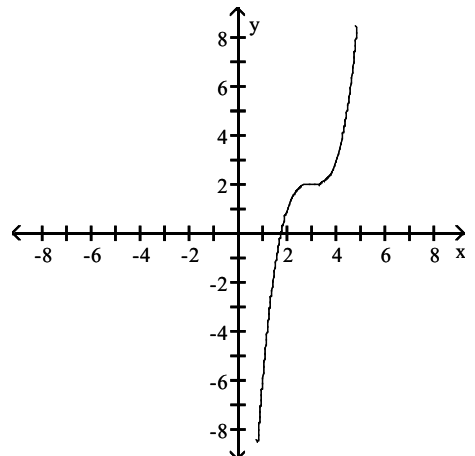
44) $y = (x - 3)^3 - 2$



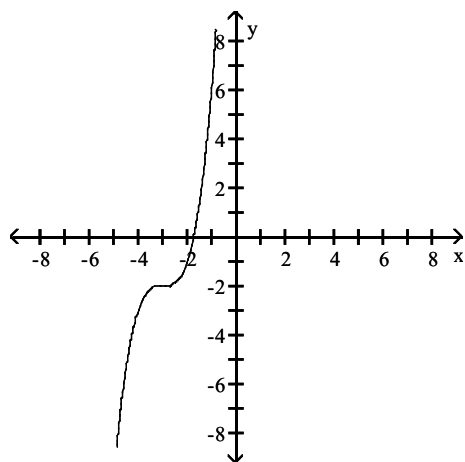
A)



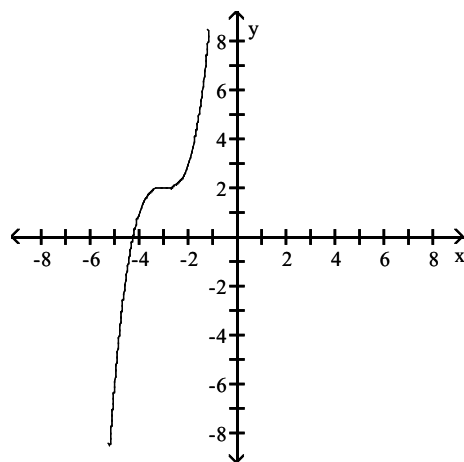
B)



C)

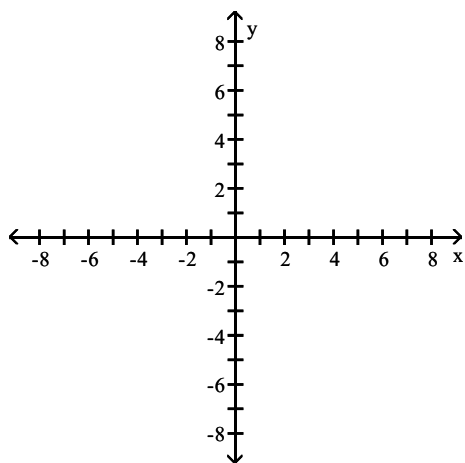


D)

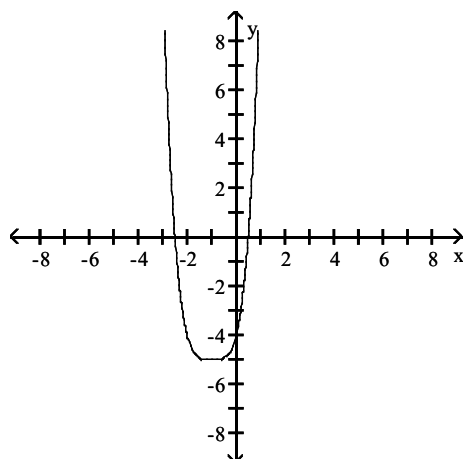


Answer: A

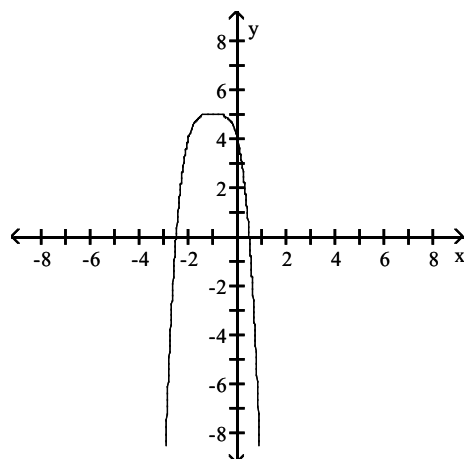
45) $y = -(x - 1)^4 + 5$



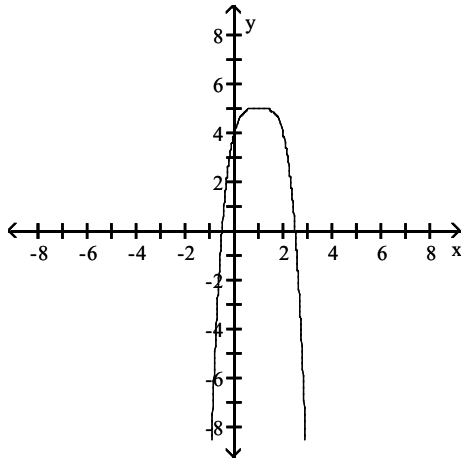
A)



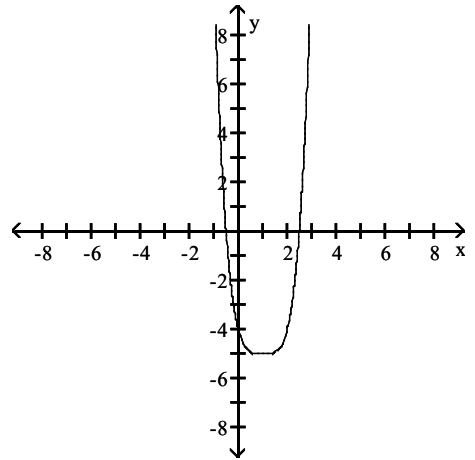
B)



C)

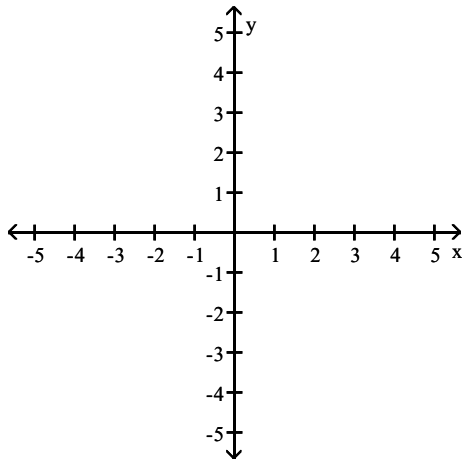


D)

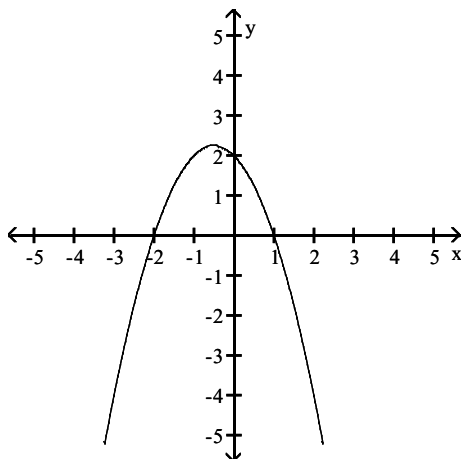


Answer: C

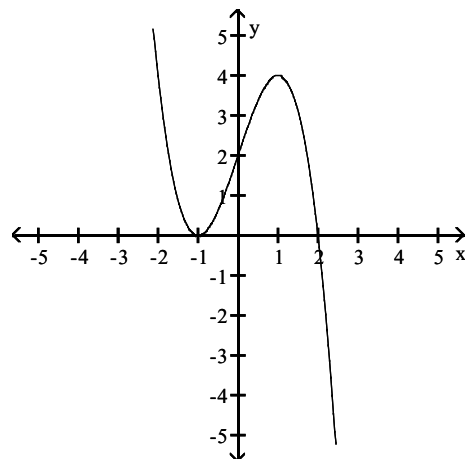
46) $y = x^3 - 3x + 2$



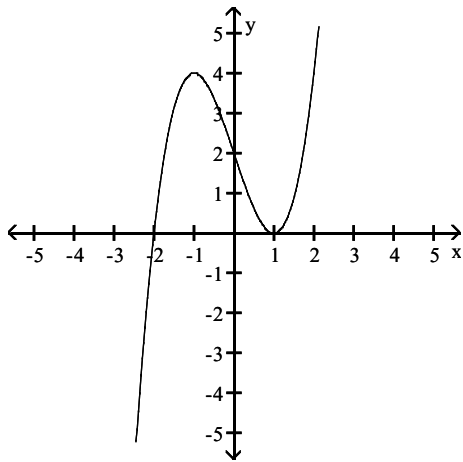
A)



B)

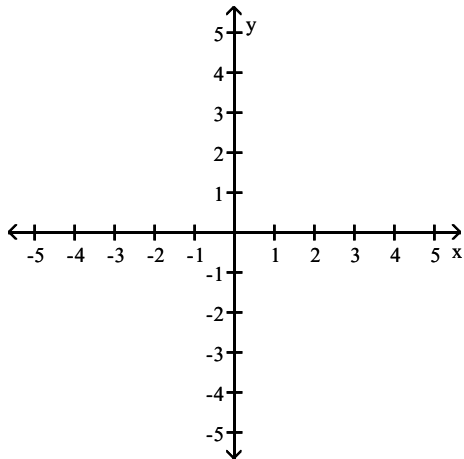


C)

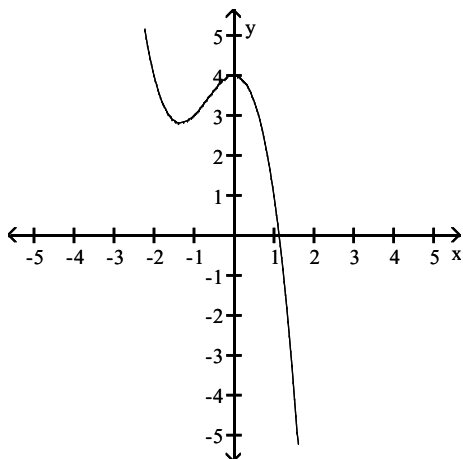


Answer: C

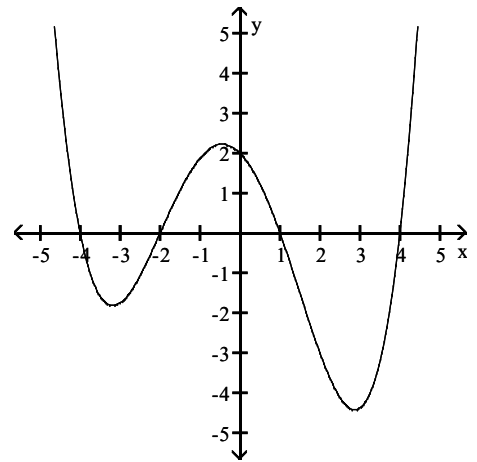
47) $y = x^4 + x^3 - 5x^2 - 4x + 4$



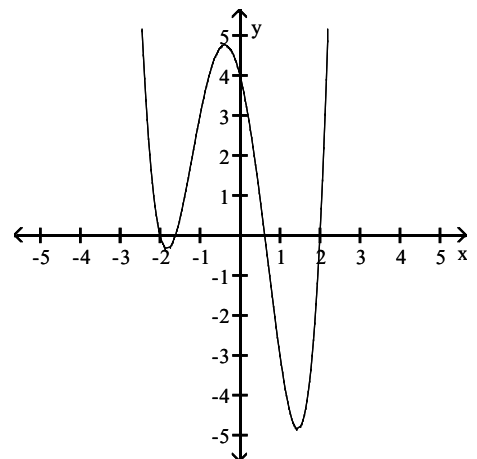
A)



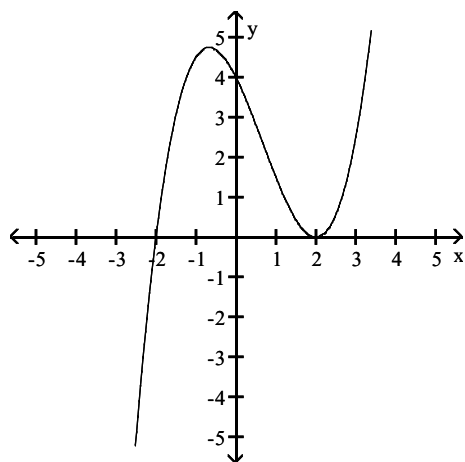
D)



B)

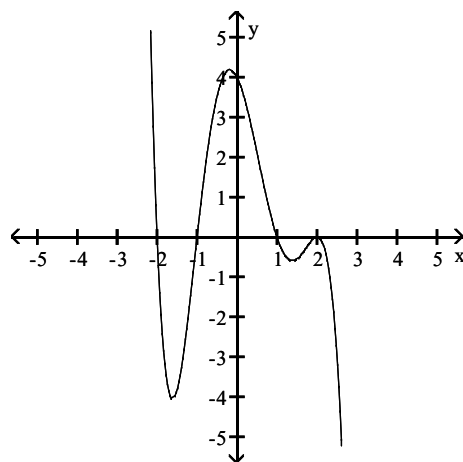


C)



Answer: B

D)



Use a graphing calculator to approximate all real solutions of the equation.

48) $y = x^3 - 3x^2 - 25x + 75$

A) 3

B) 25, 3, 75

C) -3, 3, 5

D) -5, 3, 5

Answer: D

49) $y = x^3 - 12x - 16$

A) -2, -2, 4

B) 2, -2, 4

C) -4, -2, 2

D) -2, 2, 4

Answer: A

50) $y = x^4 + 9x^3 + 17x^2 - 9x - 18$

A) -3, -1, 1, 6

B) -6, -3, 1, 1

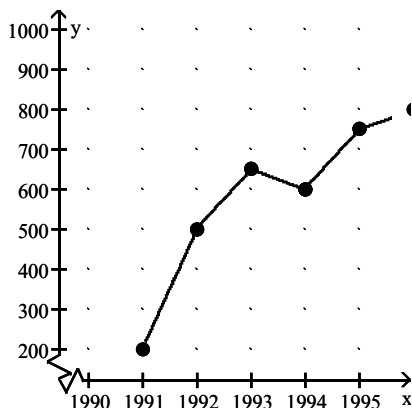
C) -6, -3, -1, 1

D) -1, 1, 3, 6

Answer: C

Solve the problem.

51)



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) 600

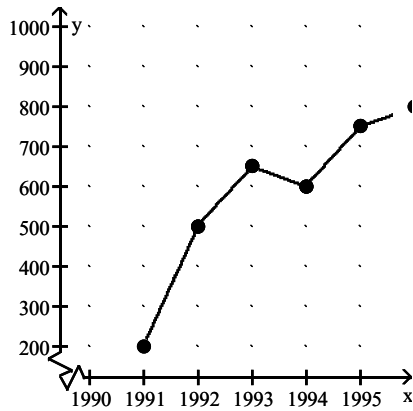
B) 650

C) 500

D) 250

Answer: B

52)



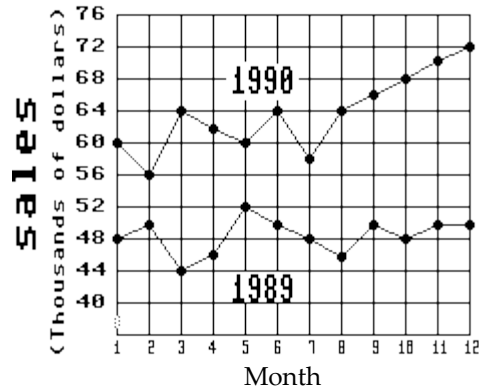
Crafty Bill's Cool Car Sales opened as a used car sales lot in 1991. The graph shows the number of cars sold as a function of time. What is the approximate number of cars sold in 1995?

- A) 700 B) 750 C) 600 D) 350

Answer: B

53)

Big "D" Sales
1989-1990



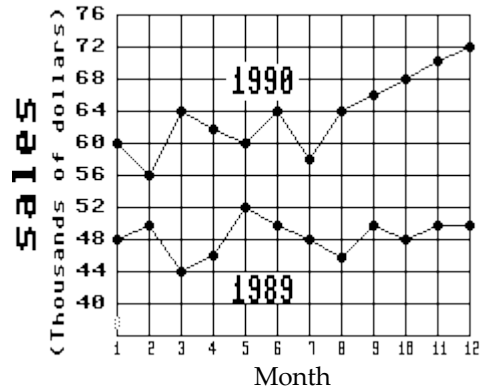
Which month in 1989 had the lowest sales?

- A) Month 6 B) Month 8 C) Month 2 D) Month 3

Answer: D

54)

Big "D" Sales
1989-1990



What was the increase in sales between month 5 and month 6 of 1990?

A) \$8000

B) \$4000

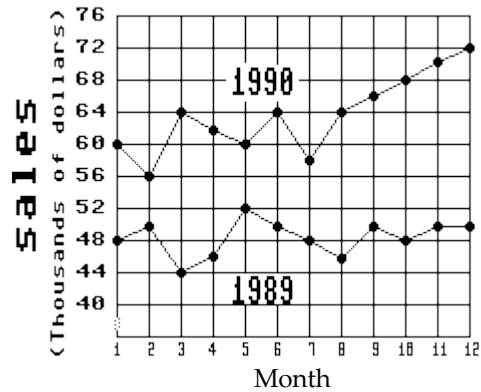
C) \$800

D) \$4

Answer: B

55)

Big "D" Sales
1989-1990



What were the total sales for the first 6 months of 1990?

A) \$64,000

B) \$302,000

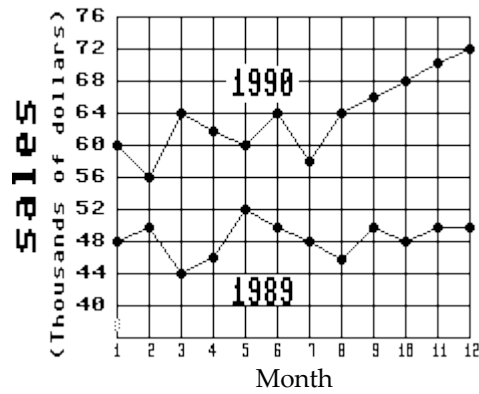
C) \$286,000

D) \$366,000

Answer: D

56)

Big "D" Sales
1989-1990



What was the difference between the highest and lowest monthly sales in 1989?

A) \$2000

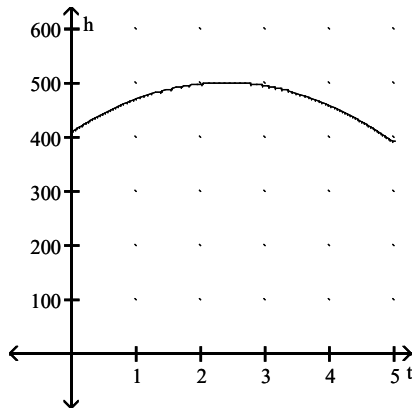
B) \$6000

C) \$8000

D) \$4000

Answer: C

57) 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 0.9 s?



A) 475 ft

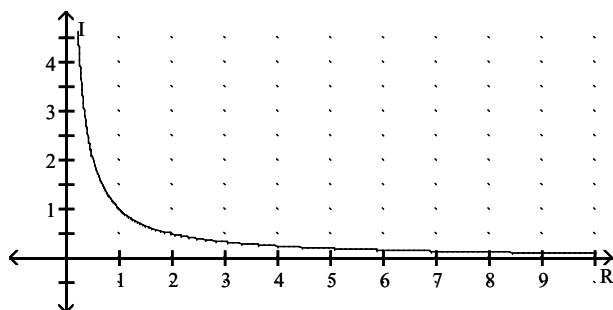
B) 450 ft

C) 500 ft

D) 425 ft

Answer: A

58) The graph shows the relationship between current I and resistance R if the voltage is fixed. Find the current if the resistance is 2.1Ω .



A) 0.6 A

B) 0.2 A

C) 0.4 A

D) 0.8 A

Answer: C

Find the slope of the line, if it is defined.

59) Through (2, -3) and (-3, 7)

A) -2

B) 5

C) 2

D) 10

Answer: A

60) Through (4, -8) and (8, 3)

A) -5

B) Undefined

C) $2\frac{4}{3}$

D) $2\frac{3}{4}$

Answer: D

61) Through (-2, -7) and (-4, 3)

A) Undefined

B) 10

C) -2

D) -5

Answer: D

62) Through (1, -9) and (8, 8)

A) $-2\frac{3}{7}$

B) 1

C) Undefined

D) $2\frac{3}{7}$

Answer: D

63) Through (-5, -6) and (-5, 6)

A) 2

B) 6

C) Undefined

D) 12

Answer: C

64) Through (1, 5) and (5, 5)

A) 0

B) 3

C) 7

D) 1

Answer: A

65) Through the origin and (2, -6)

A) 2

B) -3

C) 3

D) -6

Answer: B

66) Through the origin and (3, 5)

A) $1\frac{3}{2}$

B) 5

C) Undefined

D) $1\frac{2}{3}$

Answer: D

Write an equation in slope-intercept form of a line satisfying the given conditions.

67) $m = -\frac{3}{7}$; $b = \frac{20}{7}$

A) $y = -\frac{3}{7}x + \frac{20}{7}$

B) $y = -\frac{3}{7}x - \frac{20}{7}$

C) $y = \frac{3}{7}x + \frac{20}{7}$

D) $y = \frac{3}{7}x - \frac{20}{7}$

Answer: A

68) $m = -\frac{3}{4}$; $b = 5$

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

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

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

D) $y = \frac{3}{4}x + 5$

Answer: B

69) $m = \frac{5}{2}; b = -2$

A) $y = \frac{5}{2}x + 2$

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

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

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

Answer: B

70) $m = \frac{1}{3}; b = 4$

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

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

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

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

Answer: D

71) $m = \frac{7}{3}; b = -3$

A) $y = -\frac{7}{3}x + 3$

B) $y = \frac{7}{3}x + 3$

C) $y = -\frac{7}{3}x - 3$

D) $y = \frac{7}{3}x - 3$

Answer: D

72) Slope $-\frac{2}{5}$; y-intercept $\frac{18}{5}$

A) $y = \frac{2}{5}x - \frac{18}{5}$

B) $y = -\frac{2}{5}x - \frac{18}{5}$

C) $y = -\frac{2}{5}x + \frac{18}{5}$

D) $y = \frac{2}{5}x + \frac{18}{5}$

Answer: C

73) Slope $-\frac{3}{4}$; y-intercept $\frac{27}{4}$

A) $y = \frac{3}{4}x - \frac{27}{4}$

B) $y = \frac{3}{4}x + \frac{27}{4}$

C) $y = -\frac{3}{4}x - \frac{27}{4}$

D) $y = -\frac{3}{4}x + \frac{27}{4}$

Answer: D

74) Slope $-\frac{3}{5}$; y-intercept $\frac{7}{5}$

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

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

C) $y = -\frac{3}{5}x + \frac{7}{5}$

D) $y = \frac{3}{5}x + \frac{7}{5}$

Answer: C

75) Slope $-\frac{4}{9}$; y-intercept 3

A) $y = \frac{4}{9}x - 3$

B) $y = \frac{4}{9}x + 3$

C) $y = -\frac{4}{9}x - 3$

D) $y = -\frac{4}{9}x + 3$

Answer: D

76) Slope $-\frac{5}{6}$; y-intercept 5

A) $y = -\frac{5}{6}x + 5$

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

C) $y = \frac{5}{6}x + 5$

D) $y = -\frac{5}{6}x - 5$

Answer: A

Find the slope and the y-intercept of the line.

77) $4x + 5y = 18$

A) $m = -\frac{4}{5}; b = \frac{18}{5}$

B) $m = \frac{4}{5}; b = 18$

C) $m = \frac{5}{4}; b = \frac{18}{5}$

D) $m = -\frac{5}{4}; b = 5$

Answer: A

78) $-5y = -2x - 19$

A) $m = \frac{5}{2}; b = \frac{19}{5}$

B) $m = \frac{2}{5}; b = \frac{19}{5}$

C) $m = -\frac{2}{5}; b = -19$

D) $m = -\frac{5}{2}; b = -5$

Answer: B

79) $3x - 5y = 29$

A) $m = -\frac{5}{3}; b = -5$

B) $m = -\frac{3}{5}; b = 29$

C) $m = \frac{3}{5}; b = -\frac{29}{5}$

D) $m = \frac{5}{3}; b = -\frac{29}{5}$

Answer: C

80) $2x - 3y = -22$

A) $m = \frac{3}{2}; b = \frac{22}{3}$

B) $m = -\frac{3}{2}; b = -3$

C) $m = \frac{2}{3}; b = \frac{22}{3}$

D) $m = -\frac{2}{3}; b = -22$

Answer: C

81) $y = \frac{9}{5}x$

A) $m = 0; b = \frac{9}{5}$

B) $m = \frac{5}{9}; b = \frac{9}{5}$

C) $m = \frac{9}{5}; b = 0$

D) $m = 1; b = 0$

Answer: C

82) $y = 9x - 8$

A) $m = -9; b = -8$

B) $m = 1; b = 0$

C) $m = 0; b = 8$

D) $m = 9; b = -8$

Answer: D

83) $x + y = -2$

A) $m = 1; b = 2$

B) $m = -2; b = 0$

C) $m = -1; b = -2$

D) $m = 0; b = -1$

Answer: C

84) $x + 3y = -3$

A) $m = -\frac{1}{3}; b = -1$

B) $m = -3; b = 0$

C) $m = 3; b = -9$

D) $m = \frac{1}{3}; b = -9$

Answer: A

85) $4x - 4y = -20$

A) $m = -4; b = -5$

B) $m = 1; b = -20$

C) $m = 1; b = 5$

D) $m = 0; b = 4$

Answer: C

86) $5y + 9x = 4$

A) $m = 5; b = 0$

B) $m = -\frac{9}{5}; b = \frac{4}{5}$

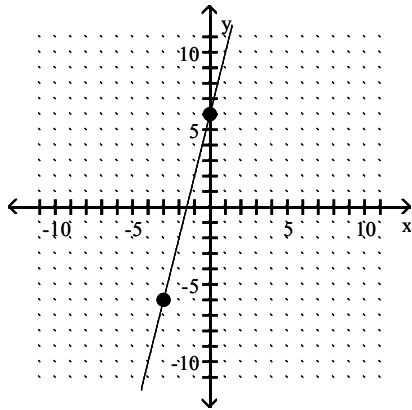
C) $m = -9; b = 4$

D) $m = \frac{9}{5}; b = 0$

Answer: B

Identify whether the slope is positive, negative, zero, or undefined.

87)



A) Zero

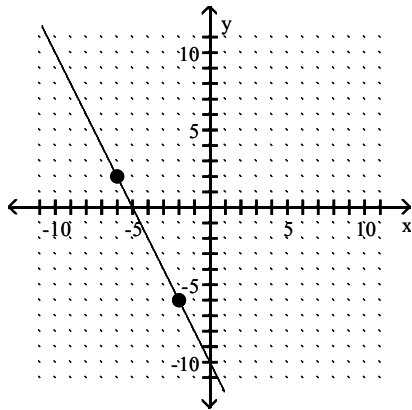
B) Undefined

C) Positive

D) Negative

Answer: C

88)



A) Undefined

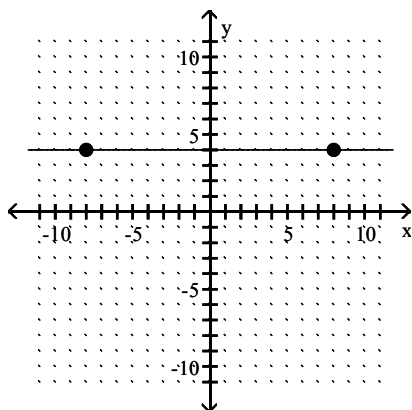
B) Zero

C) Negative

D) Positive

Answer: C

89)



A) Zero

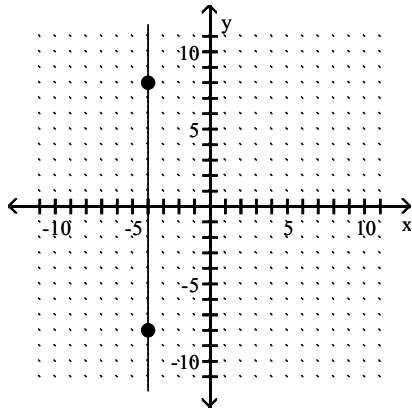
B) Positive

C) Undefined

D) Negative

Answer: A

90)



A) Negative

B) Positive

C) Zero

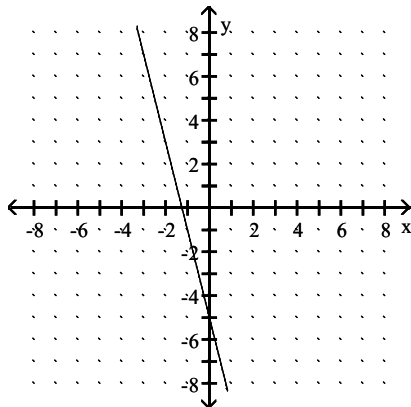
D) Undefined

Answer: D

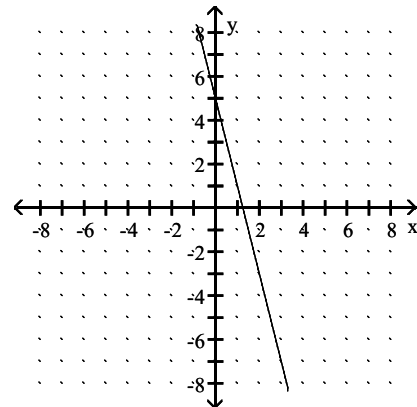
Choose one of the four lines graphed which most closely resembles the graph of the given equation.

91) $y = 4x + 5$

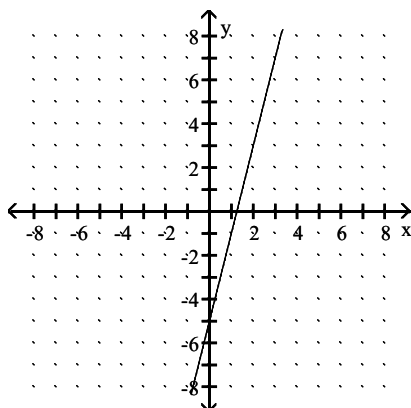
A)



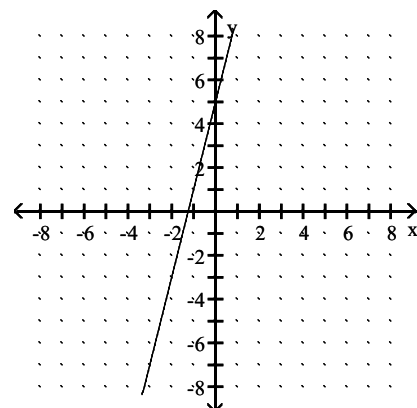
B)



C)



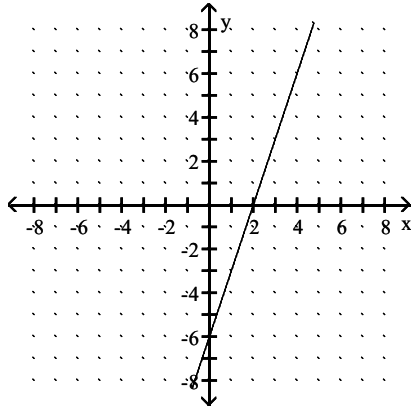
D)



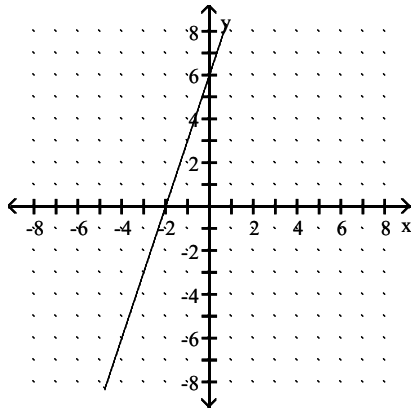
Answer: D

92) $y = 3x - 6$

A)

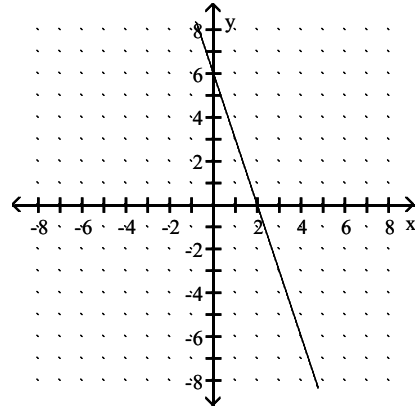


C)

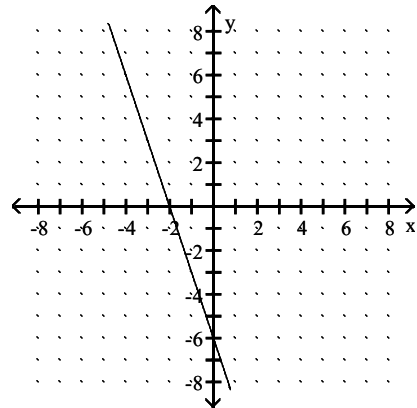


Answer: A

B)

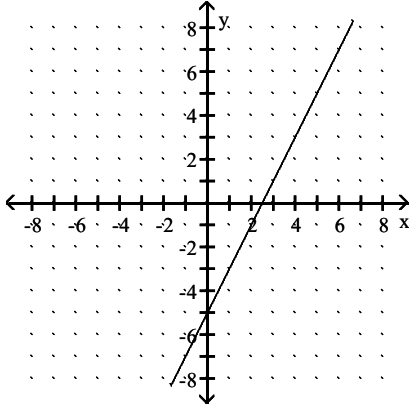


D)

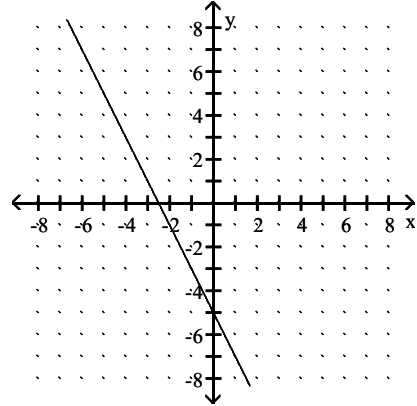


93) $y = -2x + 5$

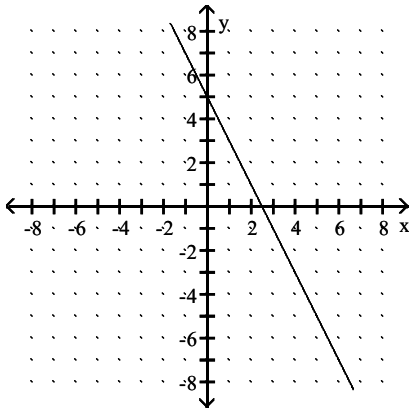
A)



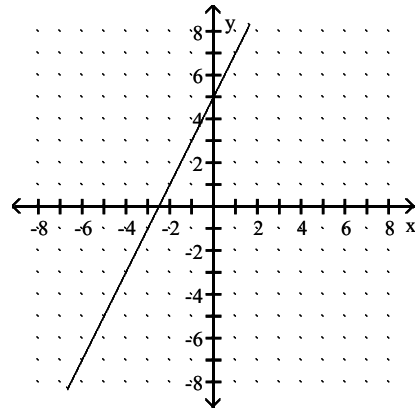
B)



C)



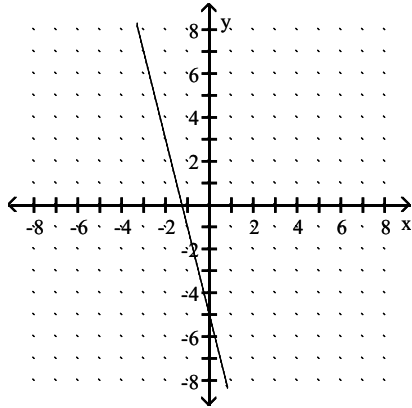
D)



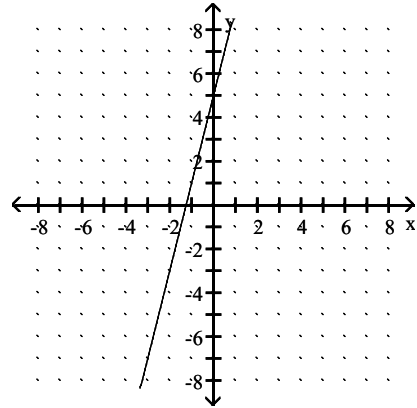
Answer: C

94) $y = -4x - 5$

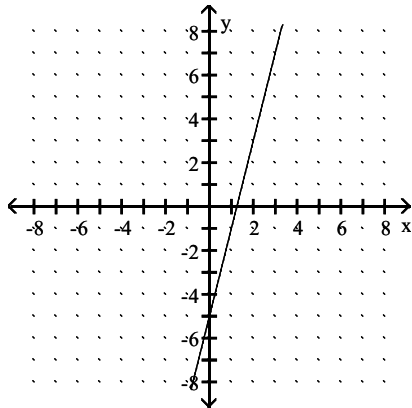
A)



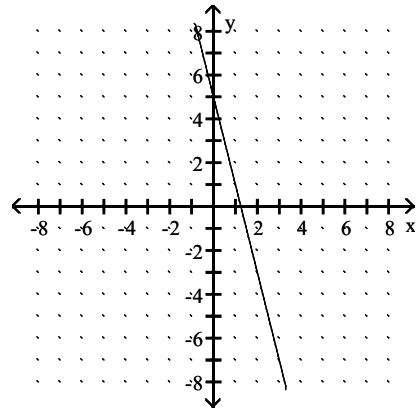
B)



C)



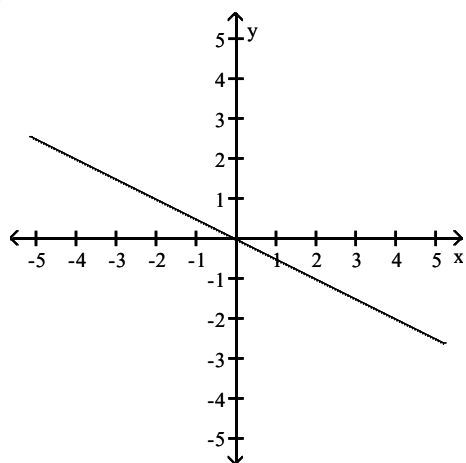
D)



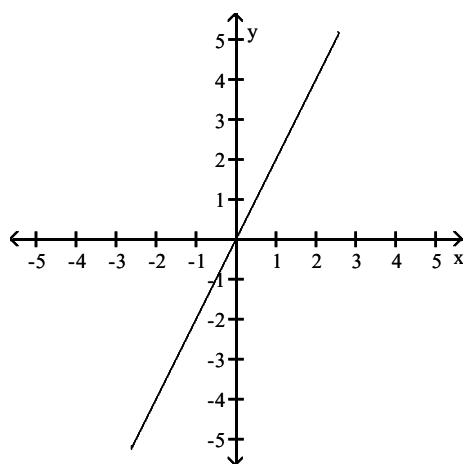
Answer: A

95) $y = -2x$

A)

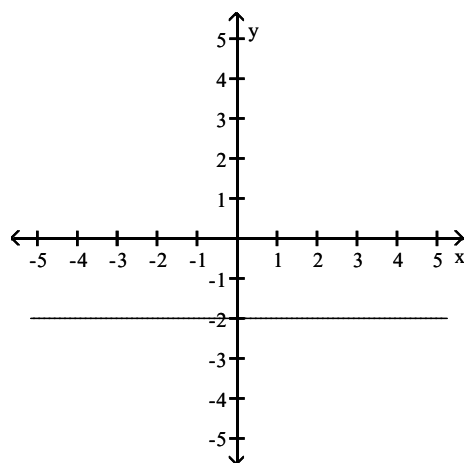


C)

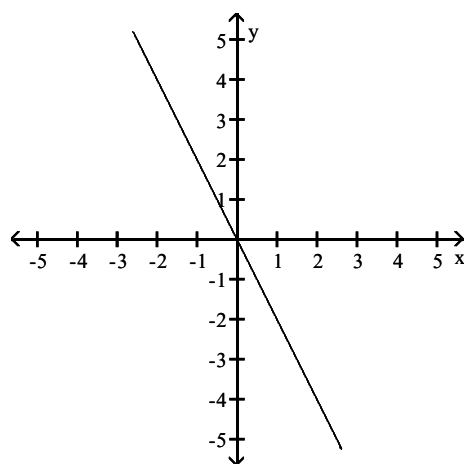


Answer: D

B)

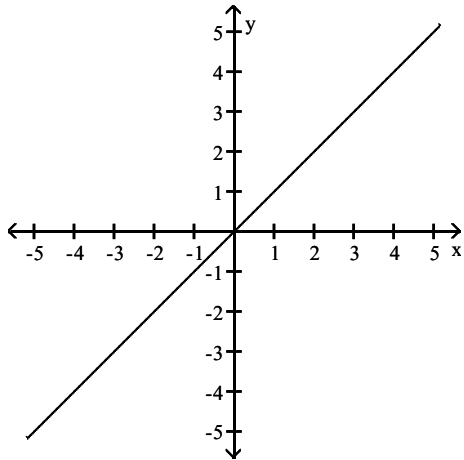


D)

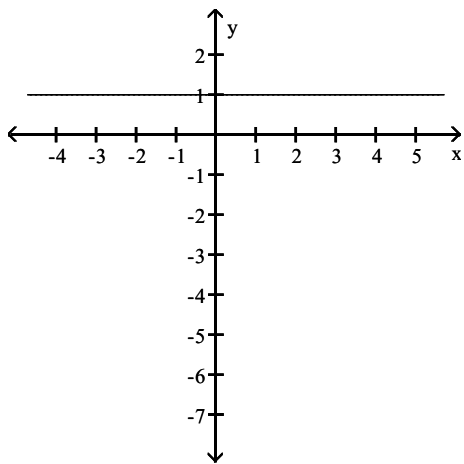


96) $y = 1$

A)

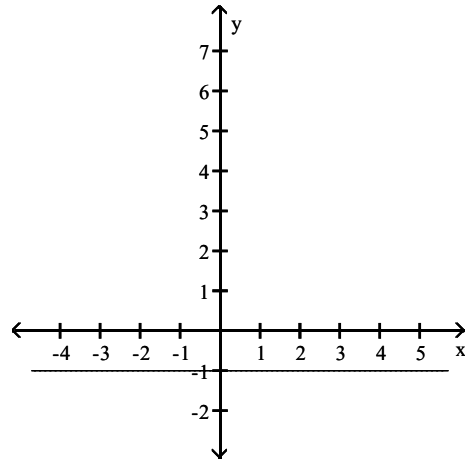


C)

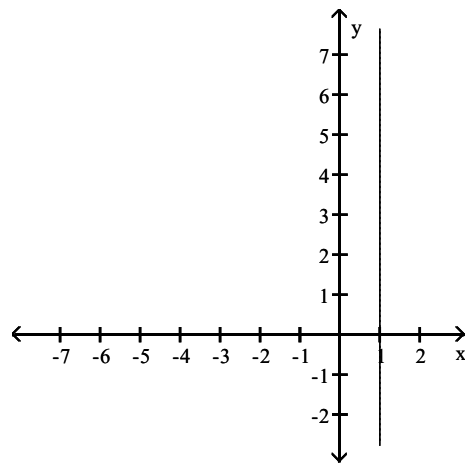


Answer: C

B)

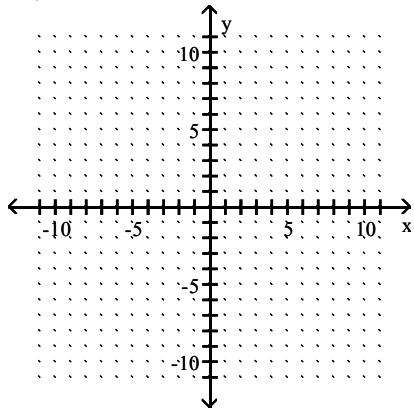


D)

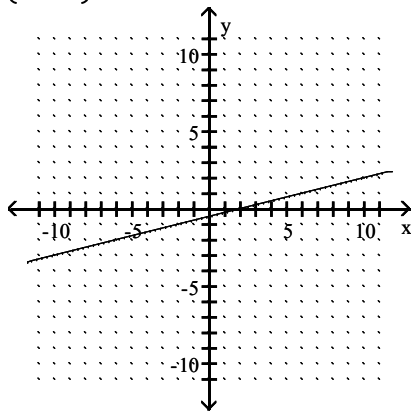


Find the x- and y-intercepts for the equation. Then graph the equation.

97) $16y - 4x = -8$

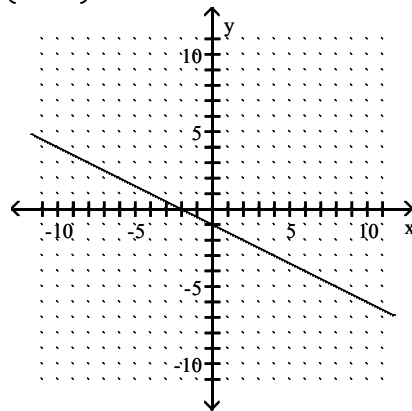


A) $\left(0, -\frac{1}{2}\right), (2, 0)$

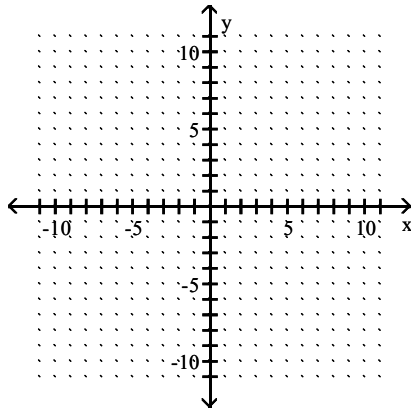


Answer: A

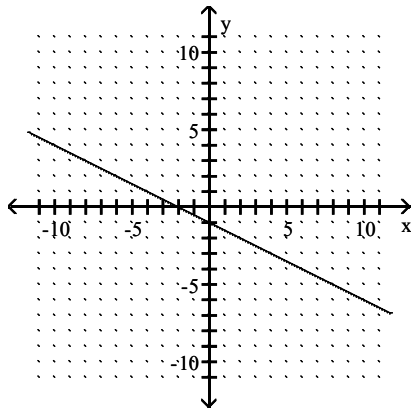
B) $\left(0, -\frac{1}{2}\right), (-2, 0)$



98) $-5x - 10y = 10$

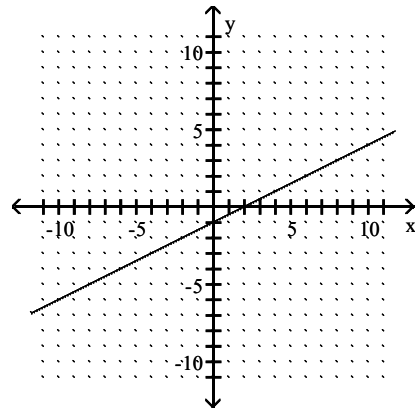


A) $(0, -1), (-2, 0)$

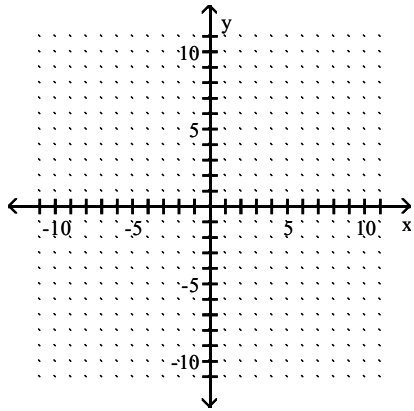


Answer: A

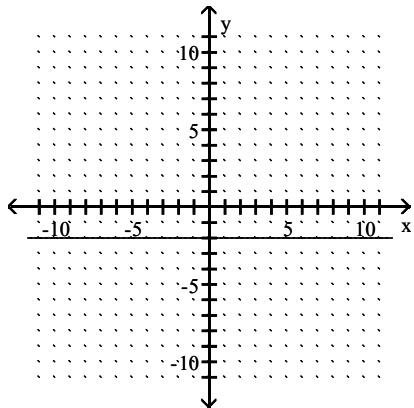
B) $(0, -1), (2, 0)$



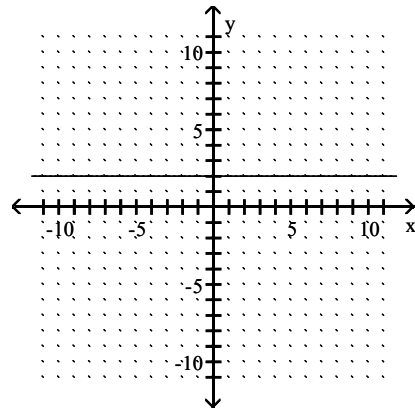
99) $y = -2$



A) $(0, -2)$, (none)

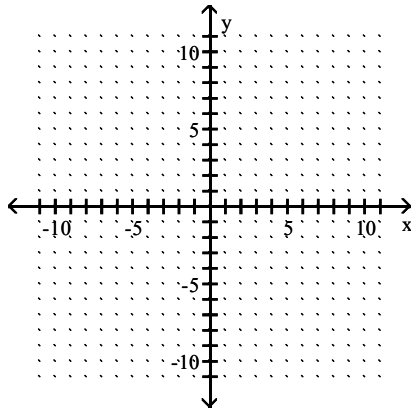


B) (none), $(-2, 0)$

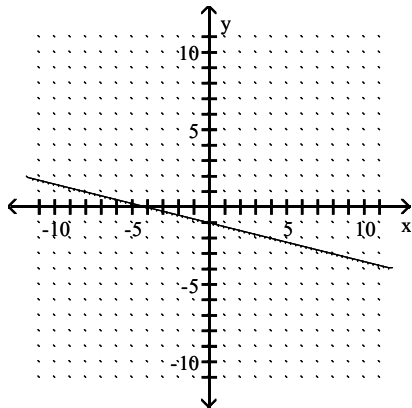


Answer: A

100) $5x - 20y = 20$

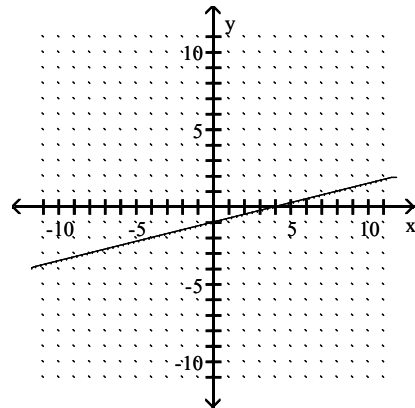


A) $(0, -1), (-4, 0)$

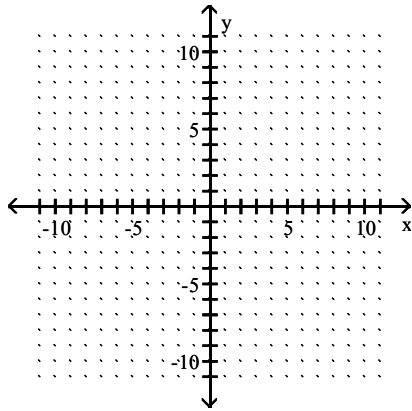


Answer: B

B) $(0, -1), (4, 0)$

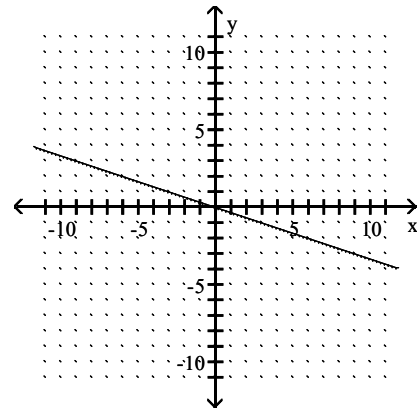
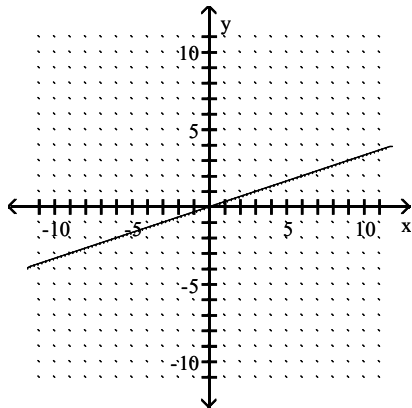


101) $6x - 18y = 0$



A) $(0, 0), (0, 0)$

B) $(0, 0), (0, 0)$



Answer: A

Decide whether the pair of lines is parallel, perpendicular, or neither.

102) $3x - 4y = 12$

$8x + 6y = 16$

A) Parallel

B) Perpendicular

C) Neither

Answer: B

103) $3x - 6y = -4$

$18x + 9y = -10$

A) Parallel

B) Neither

C) Perpendicular

Answer: C

104) $6x + 2y = 8$

$18x + 6y = 26$

A) Neither

B) Parallel

C) Perpendicular

Answer: B

105) The line through $(3, -5)$ and $(-1, 7)$ and the line through $(6, -13)$ and $(-2, 11)$

A) Perpendicular

B) Parallel

C) Neither

Answer: B

106) The line through $(-20, 5)$ and $(-4, 7)$ and the line through $(-5, 5)$ and $(7, 4)$

A) Parallel

B) Neither

C) Perpendicular

Answer: B

Find an equation of the line with slope m that passes through the given point. Put the answer in slope-intercept form.

107) $(4, 4)$, $m = -\frac{5}{9}$

A) $y = \frac{5}{9}x + \frac{56}{9}$

B) $y = \frac{5}{9}x - \frac{56}{9}$

C) $y = -\frac{5}{9}x + \frac{56}{9}$

D) $y = -\frac{5}{9}x - \frac{56}{9}$

Answer: C

108) $(3, 4)$, $m = -\frac{5}{8}$

A) $y = \frac{5}{8}x + \frac{47}{8}$

B) $y = -\frac{5}{8}x + \frac{47}{8}$

C) $y = -\frac{5}{8}x - \frac{47}{8}$

D) $y = \frac{5}{8}x - \frac{47}{8}$

Answer: B

109) $(0, 6)$, $m = \frac{6}{5}$

A) $y = -\frac{6}{5}x + 6$

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

C) $y = -\frac{6}{5}x - 6$

D) $y = \frac{6}{5}x + 6$

Answer: D

110) $(0, 2)$, $m = -\frac{5}{6}$

A) $y = -\frac{5}{6}x - 2$

B) $y = \frac{5}{6}x + 2$

C) $y = \frac{5}{6}x - 2$

D) $y = -\frac{5}{6}x + 2$

Answer: D

111) $(-3, -9)$, $m = 0$

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

B) $x = -3$

C) $y = -9$

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

Answer: C

112) $(-9, 4)$, undefined slope

A) $x = -9$

B) $y = x + \frac{9}{4}$

C) $y = 4$

D) $y = x - \frac{9}{4}$

Answer: A

Write an equation in standard form for a line passing through the pair of points.

113) $(-7, -2)$ and $(0, -5)$

A) $5x - 5y = -25$

B) $-5x + 5y = -25$

C) $-3x - 7y = 35$

D) $3x - 7y = 35$

Answer: C

114) $(-3, 0)$ and $(-7, 7)$

A) $7x + 4y = -21$

B) $-3x - 14y = -119$

C) $-7x + 4y = -21$

D) $3x + 14y = -119$

Answer: A

115) $(4, -9)$ and $(1, 7)$

A) $-13x + 6y = -55$

B) $13x - 6y = -55$

C) $-16x + 3y = 37$

D) $16x + 3y = 37$

Answer: D

116) (1, 4) and (-5, 9)

A) $-3x - 14y = -141$

B) $5x + 6y = 29$

C) $-5x + 6y = 29$

D) $3x + 14y = -141$

Answer: B

117) (-4, 9) and (-4, -3)

A) $-3x + 9y = 0$

B) $y = 9$

C) $x = -4$

D) $9x - 3y = 0$

Answer: C

118) (-2, 1) and (6, 1)

A) $-2x + 6y = 0$

B) $y = 1$

C) $x = -2$

D) $6x - 2y = 0$

Answer: B

Find an equation of the line satisfying the given conditions.

119) Through the origin with slope 9

A) $y = -9x$

B) $y = 9x$

C) $x = 9$

D) $y = 9$

Answer: B

120) Through (-8, -4) and vertical

A) $y = -8$

B) $x = 4$

C) $y = 8$

D) $x = -8$

Answer: D

121) Through (4, 3); perpendicular to $9x + 5y = 51$

A) $5x + 9y = -7$

B) $5x - 9y = -7$

C) $9x - 5y = -7$

D) $5x - 9y = 1$

Answer: B

122) Through (8, -2); parallel to $-4x + 6y = -20$

A) $-4x + 6y = -44$

B) $6x - 4y = -2$

C) $8x + 6y = -20$

D) $-4x - 6y = -44$

Answer: A

123) Through (4, -2); parallel to $4.5x + 7.3y = 32.6$

A) $4x + 7.3y = 32.6$

B) $4.5x - 7.3y = 3.4$

C) $4.5x + 7.3y = 3.4$

D) $7.3x + 4.5y = -2$

Answer: C

124) Through (-6, 2); perpendicular to $-2x - 5y = 22$

A) $-2x - 5y = -34$

B) $-6x + 5y = 22$

C) $5x - 2y = 24$

D) $5x - 2y = -34$

Answer: D

125) Through (-3, 10); perpendicular to $-8x + 8y = 88$

A) $8x - 8y = 56$

B) $8x + 8y = 56$

C) $8x - 8y = 88$

D) $-8x - 8y = 56$

Answer: B

Solve the problem.

126) Let $C = 800 + 10x$ be the cost to manufacture x items. Find the average cost per item to produce 90 items.

A) \$19

B) \$90

C) \$7290

D) \$8010

Answer: A

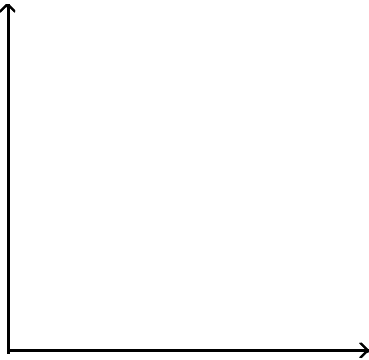
- 127) The rate of return of certain investments increases as the risk factor of the investment increases. An investment with a risk factor of 2 has a rate of return of 5.0%. An investment with a risk factor of 13 has a rate of return of 14.0%. What is the average rate of return per unit of risk?
- A) 1.22% per unit risk B) 1.50% per unit risk C) 0.67% per unit risk D) 0.82% per unit risk

Answer: D

- 128) The cost of manufacturing a molded part is related to the quantity of part produced during a production run. When 100 parts are produced, the cost is \$300. When 300 parts are produced, the cost is \$1500.
- A) \$7.00 per part B) \$6.00 per part C) \$0.17 per part D) \$4.00 per part

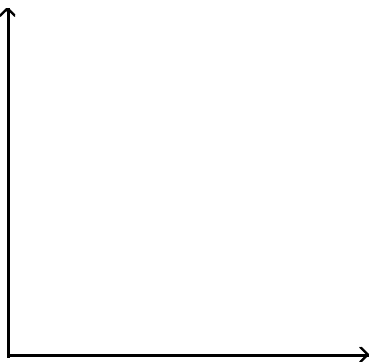
Answer: B

- 129) The cost, c , in dollars of car rental is $5 + \frac{1}{4}m$, where m is the number of miles driven. Graph the equation and use the graph to estimate the cost of car rental if the number of miles driven is 35.



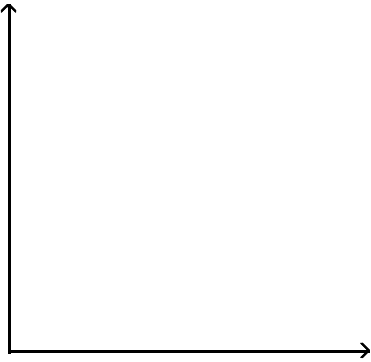
- A) About 14 dollars B) About 36.25 dollars C) About 10 dollars D) About 19 dollars
- Answer: A

- 130) The population p , in thousands, of one town can be approximated by $p = 5 + \frac{3}{2}d$ where d is the number of years since 1985. Graph the equation and use the graph to estimate the population of the town in the year 1991.



- A) About 18,000 B) About 14 C) About 22,000 D) About 14,000
- Answer: D

- 131) The value, v , in hundreds of dollars, of Juan's computer is approximated by $v = -\frac{1}{2}t + 8$, where t is the number of years since he first bought the computer. Graph the equation and use the graph to estimate the value of the computer 4 years after it was purchased.



A) \$400

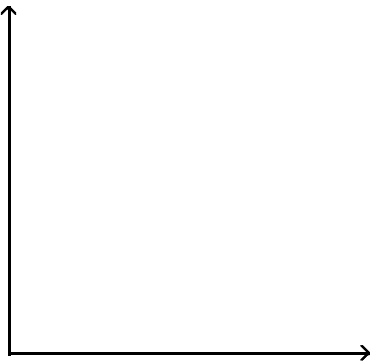
B) \$1000

C) \$720

D) \$600

Answer: D

- 132) During the month of January, the depth, d , of snow in inches at the base of one ski resort could be approximated by $d = -2t + 67$, where t is the number of days since December 31st. Graph the equation and use the graph to estimate the depth of snow on January 24th.



A) 24 inches

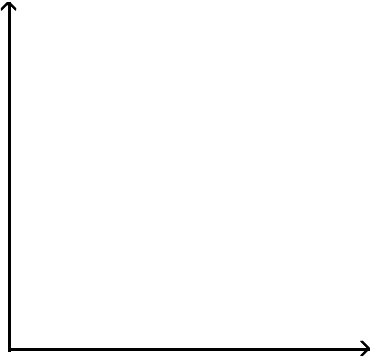
B) 19 inches

C) 27 inches

D) 43 inches

Answer: B

- 133) The cost, T , in hundreds of dollars, of tuition at one community college is given by $T = 2 + \frac{4}{5}c$, where c is the number of credits for which a student registers. Graph the equation and use the graph to estimate the cost of tuition if a student registers for 11 credits.



A) About \$1600

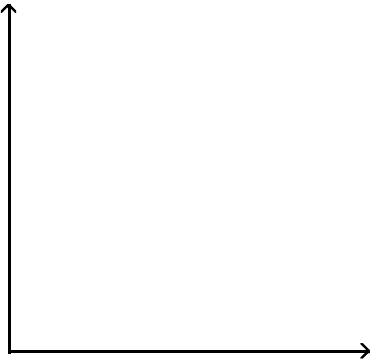
B) About \$1100

C) About \$800

D) About \$2000

Answer: B

- 134) Alison sets aside \$45 each month to spend on books and CDs. If she spends c dollars on CDs in a given month she may spend b dollars on books where $c + b = 45$. Graph the equation and use the graph to estimate the amount Alison may spend on books in March if she spends \$32 on CDs.



A) \$20

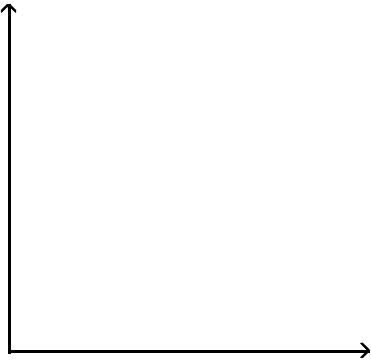
B) \$77

C) \$24

D) \$13

Answer: D

- 135) In one U.S. town the annual consumption, b , of beef (in kg per person) can be estimated by $b = -\frac{1}{3}t + 23$, where t is the number of years since 1975. Graph the equation and use the graph to estimate the beef consumption in the year 1986.



- A) About 19 kg per person
 B) About 27 kg per person
 C) About 13 kg per person
 D) About 16 kg per person

Answer: A

Use the given data points to construct a linear model, then use the model to find the appropriate Celsius or Fahrenheit temperature.

- 136)

Degrees Fahrenheit	32	140	212
Degrees Celsius	0	60	100

Choose any two data points and use them to construct a linear equation that models the data, with x being Fahrenheit and y Celsius. Then use the equation to find the Celsius temperature corresponding to 176° Fahrenheit.

- A) $y = \frac{5}{9}(x + 32)$; 116° Celsius
 B) $y = \frac{9}{5}(x + 32)$; 374° Celsius
 C) $y = \frac{5}{9}(x - 32)$; 80° Celsius
 D) $y = \frac{9}{5}(x - 32)$; 259° Celsius

Answer: C

- 137)

Degrees Fahrenheit	32	149	185
Degrees Celsius	0	65	85

Choose any two data points and use them to construct a linear equation that models the data, with x being Celsius and y Fahrenheit. Then use the equation to find the Fahrenheit temperature corresponding to 40° Celsius.

- A) $y = \frac{9}{5}x + 32$; 14° Fahrenheit
 B) $y = \frac{5}{9}x + 32$; 40° Fahrenheit
 C) $y = \frac{9}{5}x + 32$; 104° Fahrenheit
 D) $y = \frac{5}{9}x + 32$; 4° Fahrenheit

Answer: C

Convert the temperature.

- 138) $60^\circ\text{F} = \underline{\hspace{1cm}}^\circ\text{C}$
 A) 15.6°C
 B) 140.0°C
 C) 76.0°C
 D) 1.3°C

Answer: A

- 139) $41^{\circ}\text{C} = \underline{\hspace{1cm}}^{\circ}\text{F}$
 A) 54.8°F B) 105.8°F C) 131.4°F D) 11.3°F
 Answer: B
- 140) $8^{\circ}\text{F} = \underline{\hspace{1cm}}^{\circ}\text{C}$
 A) 27.6°C B) -13.3°C C) 17.6°C D) 46.4°C
 Answer: B
- 141) $176^{\circ}\text{C} = \underline{\hspace{1cm}}^{\circ}\text{F}$
 A) 374.4°F B) 129.8°F C) 348.8°F D) 180.0°F
 Answer: C

Solve the problem.

- 142) The bank's temperature display shows that it is 30° Celsius. What is the temperature in Fahrenheit?
 A) 111.6° B) 86.0° C) 34.4° D) -1.1°
 Answer: B
- 143) On a summer day, the surface water of a lake is at a temperature of 28° Celsius. What is this temperature in Fahrenheit?
 A) 60° B) 82.4° C) 50.4° D) 28°
 Answer: B
- 144) On a summer day, the bottom water of a lake is at a temperature of 10° Celsius. What is this temperature in Fahrenheit?
 A) 42° B) 18° C) 10° D) 50°
 Answer: D
- 145) The outdoor temperature rises by 12° Fahrenheit. What is this temperature in Celsius?
 A) -20° B) -11.1° C) 12° D) 6.7°
 Answer: B
- 146) A meteorologist in the Upper Peninsula of Michigan predicts an overnight low of -3° Fahrenheit. What would a Canadian meteorologist predict for the same location in Celsius?
 A) -1.7° B) -3° C) -35° D) -19.4°
 Answer: D
- 147) Find the temperature at which the Celsius and Fahrenheit scales coincide.
 A) 41° B) -40° C) 0° D) -23°
 Answer: B
- 148) Suppose the sales of a particular brand of appliance satisfy the relationship $S = 100x + 900$, where S represents the number of sales in year x , with $x = 0$ corresponding to 1982. Find the number of sales in 1993.
 A) 4000 B) 3900 C) 2000 D) 1900
 Answer: C
- 149) Assume that the sales of a certain appliance dealer are approximated by a linear function. Suppose that sales were \$10,500 in 1982 and \$52,500 in 1987. Let $x = 0$ represent 1982. Find the equation giving yearly sales S .
 A) $S = 8400x + 52,500$ B) $S = 42,000x + 52,500$ C) $S = 8400x + 10,500$ D) $S = 42,000x + 10,500$
 Answer: C

150) In a lab experiment 17 grams of acid were produced in 16 minutes and 19 grams in 39 minutes. Let y be the grams produced in x minutes. Write an equation for grams produced.

A) $y = x - 1$

B) $23y = 2x + 359$

C) $23y = 2x - 1$

D) $23y = 2x - 359$

Answer: B

151) A biologist recorded 17 snakes on 17 acres in one area and 20 snakes on 43 acres in another area. Let y be the number of snakes in x acres. Write an equation for the number of snakes.

A) $26y = 3x - 391$

B) $26y = 3x + 0$

C) $26y = 3x + 391$

D) $y = x + 0$

Answer: C

Use technology to compute r , the correlation coefficient.

152) Consider the data points with the following coordinates:

x	11.3	24.3	42.2	44.3	28.3
y	5	3	8	5	3

A) .4114

B) -.4622

C) .4622

D) 0

Answer: C

153) The test scores of 6 randomly picked students and the number of hours they prepared are as follows:

Hours	5	10	4	6	10	9
Score	64	86	69	86	59	87

A) .6781

B) -.2242

C) .2242

D) -.6781

Answer: C

154) The test scores of 6 randomly picked students and the number of hours they prepared are as follows:

Hours	4	10	5	5	3	3
Score	54	99	56	99	70	72

A) -.2241

B) -.6781

C) .2015

D) .6039

Answer: D

155) Consider the data points with the following coordinates:

x	57	53	59	61	53	56	60
y	156	164	163	177	159	175	151

A) .2145

B) -.0537

C) -.0783

D) .1085

Answer: D

156) Consider the data points with the following coordinates:

x	62	53	64	52	52	54	58
y	158	176	151	164	164	174	162

A) .7537

B) -.7749

C) 0

D) -.0810

Answer: B

157) Consider the data points with the following coordinates:

x	121	101	128	160	154	126	134
y	171	152	168	157	164	169	160

A) .5370

B) -.0781

C) .2245

D) .0537

Answer: D

158) The following are costs of advertising (in thousands of dollars) and the number of products sold (in thousands):

Cost	9	2	3	4	2	5	9	10
Number	85	52	55	68	67	86	83	73

- A) .2456 B) .7077 C) .2353 D) -.0707

Answer: B

159) The following are costs of advertising (in thousands of dollars) and the number of products sold (in thousands):

Cost	6	3	7	6	10	4	7	7
Number	54	75	91	57	96	52	92	100

- A) .6112 B) .2635 C) .6756 D) -.3707

Answer: A

160) The following are the temperatures on randomly chosen days and the amount a certain kind of plant grew (in millimeters):

Temp	62	76	50	51	71	46	51	44	79
Growth	36	39	50	13	33	33	17	6	16

- A) 0 B) -.2105 C) .1955 D) .2563

Answer: C

161) The following are the temperatures on randomly chosen days and the amount a certain kind of plant grew (in millimeters):

Temp	77	88	85	61	64	72	73	63	74
Growth	39	17	12	22	15	29	14	25	43

- A) -.3105 B) .0396 C) 0 D) -.0953

Answer: D

Solve the problem using your calculator.

162) Ten students in a graduate program were randomly selected. Their grade point averages (GPAs) when they entered the program were between 3.5 and 4.0. The following data were obtained regarding their GPAs on entering the program versus their current GPAs. Use linear regression to find a linear function that predicts a student's current GPA as a function of his or her entering GPA.

Entering GPA	Current GPA
3.5	3.6
3.8	3.7
3.6	3.9
3.6	3.6
3.5	3.9
3.9	3.8
4.0	3.7
3.9	3.9
3.5	3.8
3.7	4.0

- A) $y = 3.67 + 0.0313x$ B) $y = 4.91 + 0.0212x$ C) $y = 2.51 + 0.329x$ D) $y = 5.81 + 0.497x$

Answer: A

- 163) The paired data below consist of the test scores of 6 randomly selected students and the number of hours they studied for the test. Use linear regression to find a linear function that predicts a student's score as a function of the number of hours he or she studied.

Hours	5	10	4	6	10	9
Score	64	86	69	86	59	87

- A) $y = 33.7 + 2.14x$ B) $y = 33.7 - 2.14x$ C) $y = 67.3 + 1.07x$ D) $y = -67.3 + 1.07x$

Answer: C

- 164) The paired data below consist of the costs of advertising (in thousands of dollars) and the number of products sold (in thousands). Use linear regression to find a linear function that predicts the number of products sold as a function of the cost of advertising.

Cost	9	2	3	4	2	5	9	10
Number	85	52	55	68	67	86	83	73

- A) $y = 55.8 - 2.79x$ B) $y = -26.4 - 1.42x$ C) $y = 26.4 + 1.42x$ D) $y = 55.8 + 2.79x$

Answer: D

- 165) The paired data below consist of the temperatures on randomly chosen days and the amount a certain kind of plant grew (in millimeters). Use linear regression to find a linear function that predicts a plant's growth as a function of temperature.

Temp	62	76	50	51	71	46	51	44	79
Growth	36	39	50	13	33	33	17	6	16

- A) $y = 7.30 - 0.112x$ B) $y = 7.30 + 0.122x$ C) $y = -14.6 - 0.211x$ D) $y = 14.6 + 0.211x$

Answer: D

- 166) A study was conducted to compare the average time spent in the lab each week versus course grade for computer students. The results are recorded in the table below. Use linear regression to find a linear function that predicts a student's course grade as a function of the number of hours spent in lab.

Number of hours spent in lab	Grade (percent)
10	96
11	51
16	62
9	58
7	89
15	81
16	46
10	51

- A) $y = 0.930 + 44.3x$ B) $y = 1.86 + 88.6x$ C) $y = 88.6 - 1.86x$ D) $y = 44.3 + 0.930x$

Answer: C

- 167) Two separate tests are designed to measure a student's ability to solve problems. Several students are randomly selected to take both tests and the results are shown below. Use linear regression to find a linear function that predicts a student's score on Test B as a function of his or her score on Test A.

Test A	48	52	58	44	43	43	40	51	59
Test B	73	67	73	59	58	56	58	64	74

- A) $y = 0.930 - 19.4x$ B) $y = -19.4 - 0.930x$ C) $y = -0.930 + 19.4x$ D) $y = 19.4 + 0.930x$

Answer: D

Solve the problem.

- 168) Ten students in a graduate program were randomly selected. Their grade point averages (GPAs) when they entered the program were between 3.5 and 4.0. The following data were obtained regarding their GPAs on entering the program versus their current GPAs. By using linear regression, the following equation is obtained: $y = 3.67 + 0.0313x$ where x is entering GPA and y is current GPA. Use this equation to predict current GPA of a student whose entering GPA is 3.6.

Entering GPA	Current GPA
3.5	3.6
3.8	3.7
3.6	3.9
3.6	3.6
3.5	3.9
3.9	3.8
4.0	3.7
3.9	3.9
3.5	3.8
3.7	4.0

- A) 3.78 B) 3.29 C) 3.58 D) 3.40

Answer: A

- 169) The paired data below consist of the test scores of 6 randomly selected students and the number of hours they studied for the test. By using linear regression, the following equation is obtained: $y = 67.3 + 1.07x$ where x is number of hours studied and y is score on the test. Use this equation to predict the score on the test of a student who studies 14 hours.

Hours	5	10	4	6	10	9
Score	64	86	69	86	59	87

- A) 87.3 B) 77.3 C) 88.3 D) 82.3

Answer: D

- 170) The paired data below consist of the costs of advertising (in thousands of dollars) and the number of products sold (in thousands). By using linear regression, the following equation is obtained: $y = 55.8 + 2.79x$ where x is the cost of advertising (in thousands of dollars) and y is number of products sold (in thousands). Use this equation to predict the number of products sold if the cost of advertising is \$12,000.

Cost	9	2	3	4	2	5	9	10
Number	85	52	55	68	67	86	83	73

- A) 89.28 B) 86.28 C) 33,535.8 D) 95.98

Answer: A

- 171) The paired data below consist of the temperatures on randomly chosen days and the amount a certain kind of plant grew (in millimeters). By using linear regression, the following equation is obtained: $y = 14.6 + 0.211x$ where x is temperature and y is growth in millimeters. Use this equation to predict the growth of a plant if the temperature is 79.

Temp	62	76	50	51	71	46	51	44	79
Growth	36	39	50	13	33	33	17	6	16

- A) 31.27 B) 29.61 C) 31.90 D) 32.53

Answer: A

- 172) A study was conducted to compare the average time spent in the lab each week versus course grade for computer students. The results are recorded in the table below. By using linear regression, the following equation is obtained: $y = 88.6 - 1.86x$ where x is the number of hours spent in the lab and y is grade on the test. Use this equation to predict the grade of a student who spends 13 hours in the lab.

Number of hours spent in lab	Grade (percent)
10	96
11	51
16	62
9	58
7	89
15	81
16	46
10	51

- A) 75.6 B) 67.0 C) 60.4 D) 64.4

Answer: D

- 173) The information in the chart gives the salary of a person for the stated years. Model the data with a linear equation using the points (1, 24,300) and (3, 26,600).

Year, x	Salary, y
1990, 0	\$23,500
1991, 1	\$24,300
1992, 2	\$25,200
1993, 3	\$26,600
1994, 4	\$27,200

- A) $y = 28.9x + 23,500$ B) $y = 1150x + 23,500$ C) $y = -1393x + 23,500$ D) $y = 1150x$

Answer: B

- 174) The information in the chart below gives the salary of a person for the stated years. Model the data with a linear equation using the points (1, 24,700) and (3, 26,300). Then use this equation to predict the salary for the year 2002.

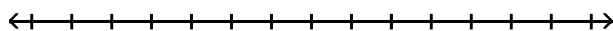
Year, x	Salary, y
1990, 0	\$23,500
1991, 1	\$24,700
1992, 2	\$25,200
1993, 3	\$26,300
1994, 4	\$27,200

- A) \$33,100 B) \$33,120 C) \$33,140 D) \$33,080

Answer: A

Solve and graph the inequality and graph the solution.

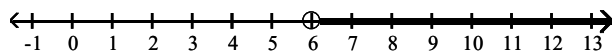
175) $x - 5 < 1$



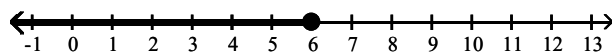
A) $[6, \infty)$



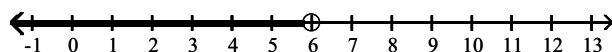
B) $(6, \infty)$



C) $(-\infty, 6]$

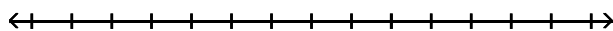


D) $(-\infty, 6)$

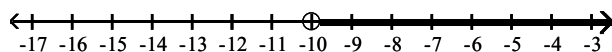


Answer: D

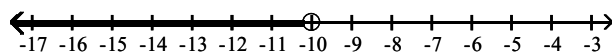
176) $4z - 3 > 3z - 7$



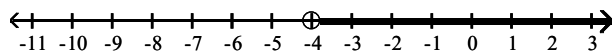
A) $(-10, \infty)$



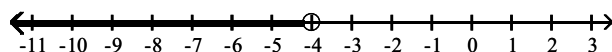
B) $(-\infty, -10)$



C) $(-4, \infty)$

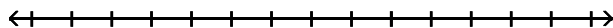


D) $(-\infty, -4)$

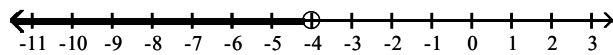


Answer: C

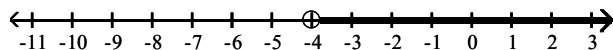
177) $-4x - 8 \leq -5x - 4$



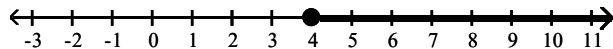
A) $(-\infty, -4)$



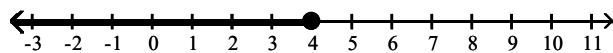
B) $(-4, \infty)$



C) $[4, \infty)$

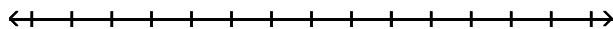


D) $(-\infty, 4]$

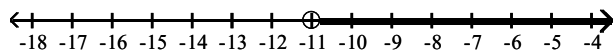


Answer: D

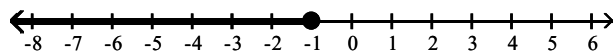
178) $-11a + 2 \geq -12a + 1$



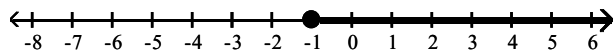
A) $(-11, \infty)$



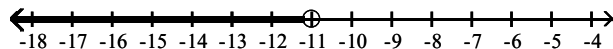
B) $(-\infty, -1]$



C) $[-1, \infty)$

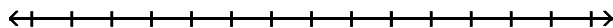


D) $(-\infty, -11)$

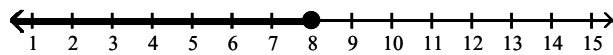


Answer: C

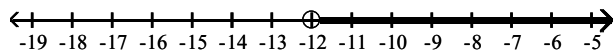
179) $-12x + 10 \geq -11x + 2$



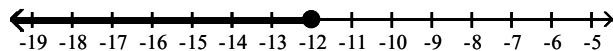
A) $(-\infty, 8]$



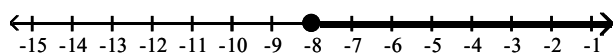
B) $(-12, \infty)$



C) $(-\infty, -12]$

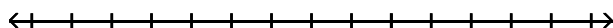


D) $[-8, \infty)$

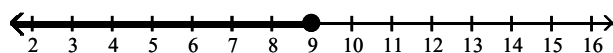


Answer: A

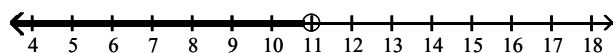
180) $3 + 11y + 1 \geq 10y + 13$



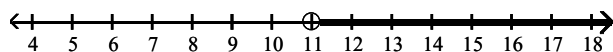
A) $(-\infty, 9]$



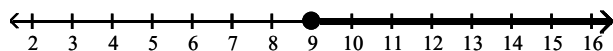
B) $(-\infty, 11)$



C) $(11, \infty)$

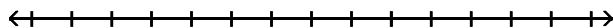


D) $[9, \infty)$

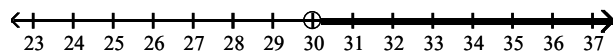


Answer: D

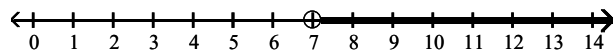
181) $30x + 18 > 6(4x + 10)$



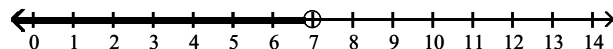
A) $(30, \infty)$



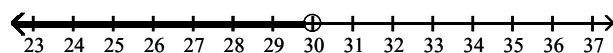
B) $(7, \infty)$



C) $(-\infty, 7)$

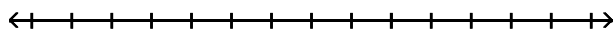


D) $(-\infty, 30)$

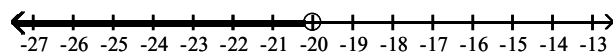


Answer: B

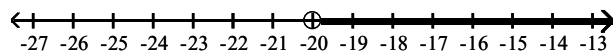
182) $-4(4x - 6) < -20x + 32$



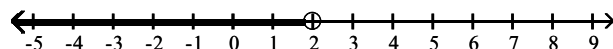
A) $(-\infty, -20)$



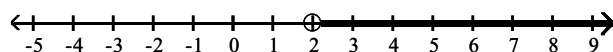
B) $(-20, \infty)$



C) $(-\infty, 2)$

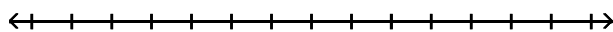


D) $(2, \infty)$

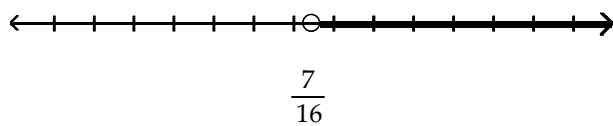


Answer: C

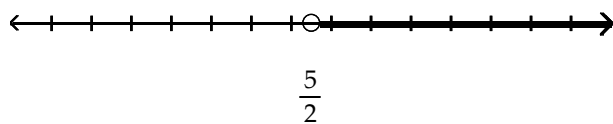
183) $\frac{8x+4}{3} < \frac{5}{2}$



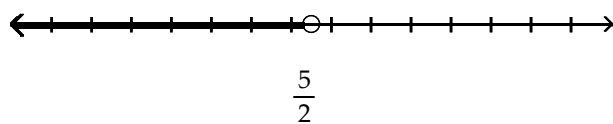
A) $\left(\frac{7}{16}, \infty\right)$



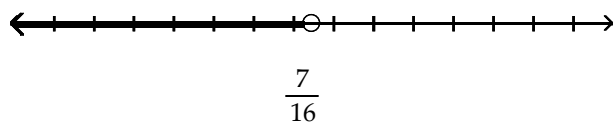
B) $\left(\frac{5}{2}, \infty\right)$



C) $\left(-\infty, \frac{5}{2}\right)$

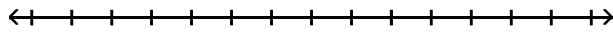


D) $\left(-\infty, \frac{7}{16}\right)$

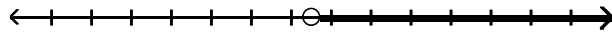


Answer: D

184) $\frac{4x - 3}{-2} < -\frac{5}{4}$

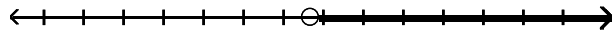


A) $\left(\frac{11}{2}, \infty\right)$



$\frac{11}{2}$

B) $\left(-\frac{5}{16}, \infty\right)$



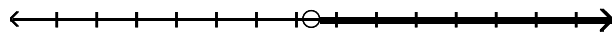
$-\frac{5}{16}$

C) $\left(-\infty, -\frac{5}{4}\right)$



$-\frac{5}{4}$

D) $\left(\frac{11}{8}, \infty\right)$



$\frac{11}{8}$

Answer: D

Solve the problem.

185) In order for a chemical reaction to take place, the Fahrenheit temperature of the reagents must be at least 131.16°F.

Find the Celsius temperatures at which the reaction may occur. ($F = \frac{9}{5}C + 32$)

A) $C < 268.09^\circ$

B) $C \geq 268.09^\circ$

C) $C \leq 55.09^\circ$

D) $C \geq 55.09^\circ$

Answer: D

186) In order for a chemical reaction to remain stable, its Celsius temperature must be no more than 146.18°C. Find the

Fahrenheit temperatures at which the reaction will remain stable. ($F = \frac{9}{5}C + 32$)

A) $F \leq 295.12^\circ$

B) $F \geq 295.12^\circ$

C) $F \geq 63.43^\circ$

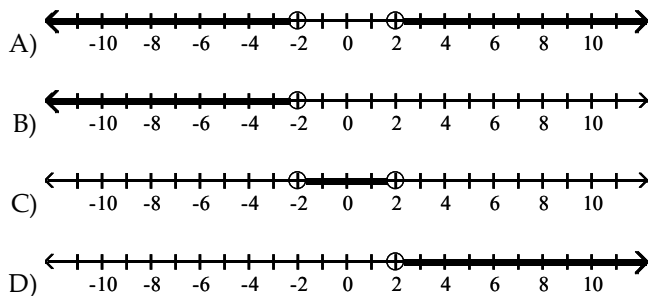
D) $F \leq 63.43^\circ$

Answer: A

- 187) The equation $y = 0.002x - 0.30$ can be used to determine the approximate profit, y in dollars, of producing x items. How many items must be produced so the profit will be at least \$3635?
- A) $x \geq 1,817,350$ B) $x \geq 1,908,532.50$ C) $x \geq 1,817,650$ D) $0 < x \leq 1,817,649$
- Answer: C
- 188) The equation $y = 0.002x + 0.20$ can be used to determine the approximate cost, y in dollars, of producing x items. How many items must be produced so the cost will be no more than \$105?
- A) $0 < x \leq 52,400$ B) $0 < x \leq 52,401$ C) $0 < x \leq 55,020.00$ D) $0 < x \leq 52,600$
- Answer: A
- 189) A rectangular enclosure must have an area of at least 4200 yd^2 . If 260 yd of fencing is to be used, and the width cannot exceed the length, within what limits must the width of the enclosure lie?
- A) $60 \leq w \leq 65$ B) $0 \leq w \leq 60$ C) $60 \leq w \leq 70$ D) $65 \leq w \leq 70$
- Answer: A
- 190) A retailer knows that n games can be sold in a month if the price is $30 - 0.2n$ dollars per game. If he buys each game for \$18, and if he wishes to make a profit of at least \$160 per month on sales of this game, how many games must he sell each month?
- A) $20 \leq n \leq 40$ B) $20 \leq n \leq 60$ C) $20 \leq n \leq 30$ D) $20 \leq n \leq 20$
- Answer: A
- 191) Paul has grades of 97 and 65 on his first two tests. What must he score on his third test in order to have an average of at least 70?
- A) at most 70 B) at most 77 C) at least 48 D) at least 81
- Answer: C
- 192) Sue drove her car 458 miles in January, 324 miles in February, and 410 miles in March. If her average mileage for the four months from January to April is to be at least 383 miles, how many miles must she drive in April?
- A) at least 340 miles B) at least 394 miles C) at most 383 miles D) at most 340 miles
- Answer: A
- 193) During the first four months of the year, Jack earned \$980, \$950, \$1200 and \$520. If Jack must have an average salary of at least \$850 in order to earn retirement benefits, what must Jack earn in the fifth month in order to qualify for benefits?
- A) at most \$850 B) at most \$913 C) at least \$600 D) at least \$900
- Answer: C
- 194) Jon has 1043 points in his math class. He must have 87% of the 1400 points possible by the end of the term to receive credit for the class. What is the minimum number of additional points he must earn by the end of the term to receive credit for the class?
- A) 1218 points B) 175 points C) 357 points D) 907 points
- Answer: B

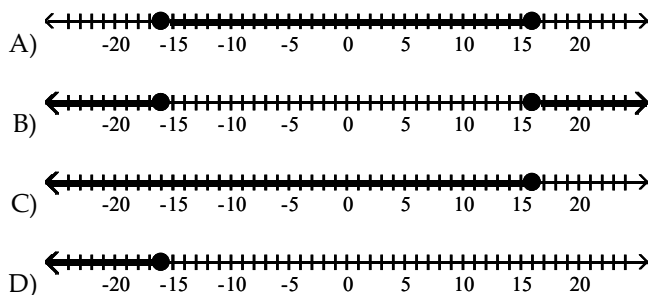
Solve the inequality and graph the solution.

195) $|x| > 2$



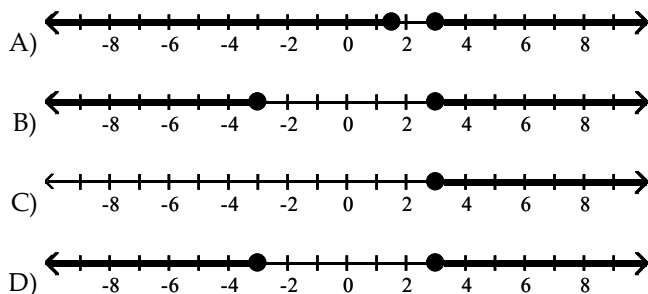
Answer: A

196) $|x| \leq 16$



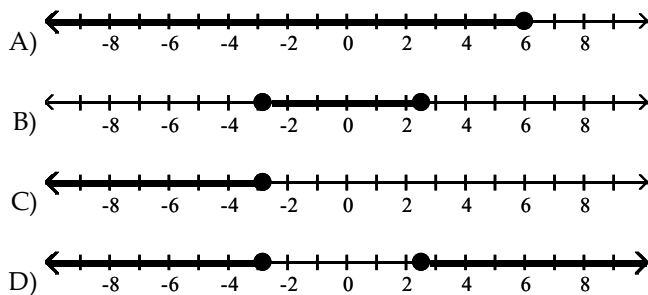
Answer: A

197) $|4x - 9| \geq 3$



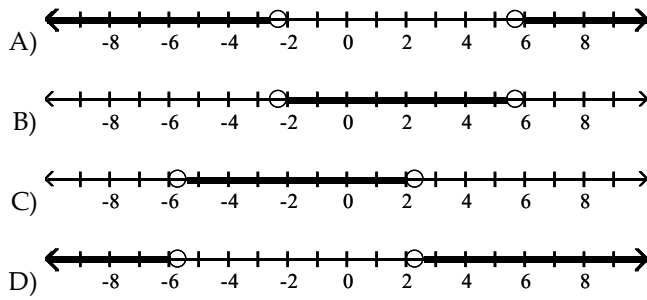
Answer: A

198) $|6x + 1| < 16$



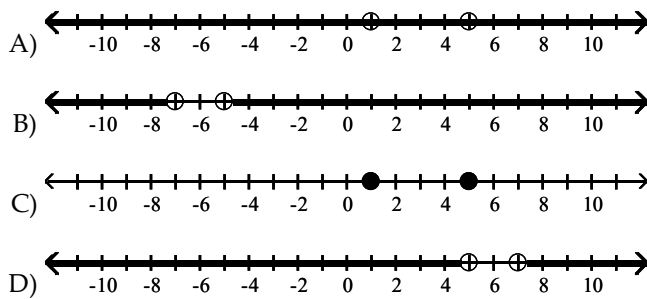
Answer: B

199) $|r - 1.7| < 4$



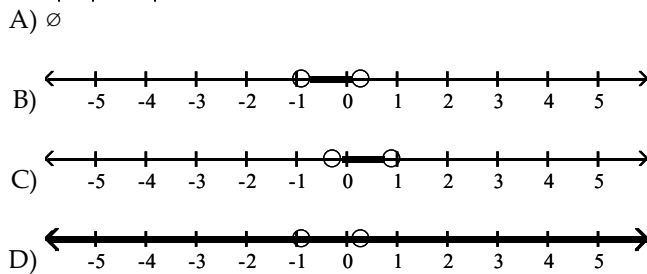
Answer: B

200) $|b - 3| + 3 > 1$



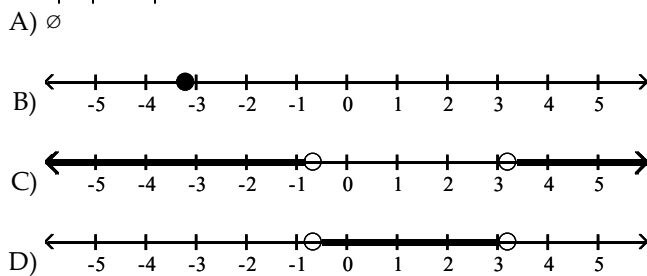
Answer: A

201) $|8s + 3| < |s + 5|$



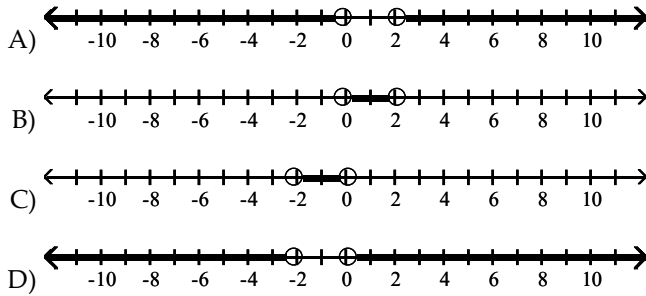
Answer: B

202) $|4s - 7| > |s - 9|$



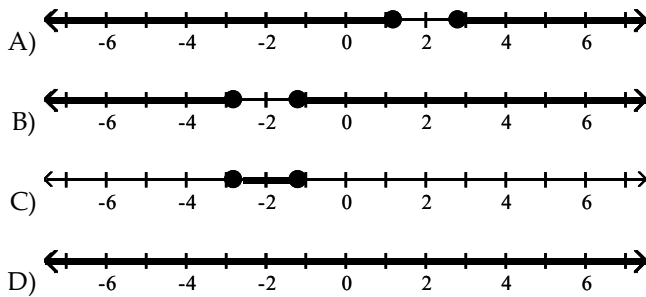
Answer: C

203) $8|x - 1| < 9$



Answer: B

204) $5|x + 2| \geq 4$



Answer: B

Solve the inequality.

- 205) A salesperson has two job offers. Company A offers a weekly salary of \$300 plus commission of 10% of sales. Company B offers a weekly salary of \$600 plus commission of 5% of sales. What is the amount of sales above which Company A's offer is the better of the two?

A) \$3000 B) \$12,000 C) \$6000 D) \$6100

Answer: C

- 206) Company A rents copiers for a monthly charge of \$150 plus 10 cents per copy. Company B rents copiers for a monthly charge of \$300 plus 5 cents per copy. What is the number of copies above which Company A's charges are the higher of the two?

A) 1500 copies B) 6000 copies C) 3100 copies D) 3000 copies

Answer: D

- 207) A car rental company has two rental rates. Rate 1 is \$63 per day plus \$0.18 per mile. Rate 2 is \$126 per day plus \$0.09 per mile. If you plan to rent for one week, how many miles would you need to drive to pay less by taking Rate 2?

A) more than 9800 miles B) more than 4900 miles
C) more than 5000 miles D) more than 17,150 miles

Answer: B

- 208) In order for a chemical reaction to take place, the Fahrenheit temperature of the reagents must be at least 194.25°F.

Find the Celsius temperatures at which the reaction may occur. ($F = \frac{9}{5}C + 32$)

A) $C < 381.65^\circ$ B) $C \geq 90.14^\circ$ C) $C \geq 381.65^\circ$ D) $C \leq 90.14^\circ$

Answer: B

209) In order for a chemical reaction to remain stable, its Celsius temperature must be no more than 131.77°C . Find the Fahrenheit temperatures at which the reaction will remain stable. ($F = \frac{9}{5}C + 32$)

A) $F \geq 55.43^{\circ}$

B) $F \geq 269.19^{\circ}$

C) $F \leq 55.43^{\circ}$

D) $F \leq 269.19^{\circ}$

Answer: D

210) The equation $y = 0.002x + 0.30$ can be used to determine the approximate profit, y in dollars, of producing x items. How many items must be produced so the profit will be at least \$4645?

A) $x < 2,322,350$

B) $x \geq 2,322,650$

C) $x \geq 2,322,350$

D) $0 < x \leq 2,322,349$

Answer: C

211) Correct Computers, Inc., finds that the cost to make x laptop computers is $C = 3316x + 147,692$, while the revenue produced from them is $R = 3537x$ (C and R are in dollars). What is the smallest whole number of computers, x , that must be sold for the company to show a profit?

A) 32,639,932

B) 22

C) 1,012,133,276

D) 669

Answer: D

212) Fantastic Flags, Inc., finds that the cost to make x flags is $C = 39x + 14,869$, while the revenue produced from them is $R = 44x$ (C and R are in dollars). What is the smallest whole number of flags, x , that must be sold for the company to show a profit?

A) 180

B) 1,234,127

C) 74,345

D) 2974

Answer: D

213) Behemoth Back Packs, Inc., finds that the cost to make x back packs is $C = 75x + 7059$, while the revenue produced from them is $R = 108x$ (C and R are in dollars). What is the smallest whole number of back packs, x , that must be sold for the company to show a profit?

A) 214

B) 39

C) 1,291,797

D) 232,947

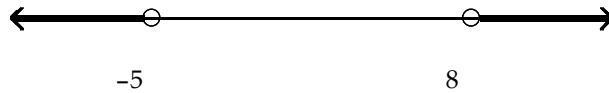
Answer: A

Solve the inequality and graph the solution.

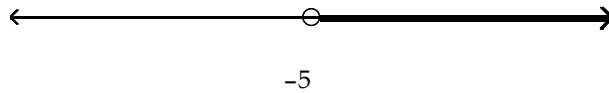
214) $(x - 8)(x + 5) > 0$



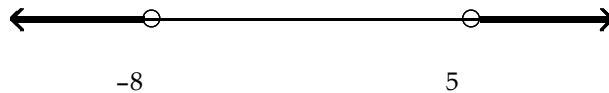
A) $(-\infty, -5)$ or $(8, \infty)$



B) $(-5, \infty)$



C) $(-\infty, -8)$ or $(5, \infty)$

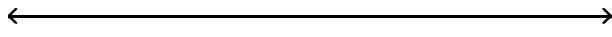


D) $(-5, 8)$

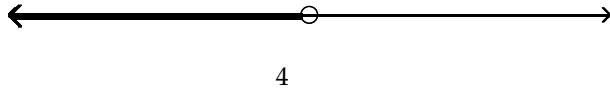


Answer: A

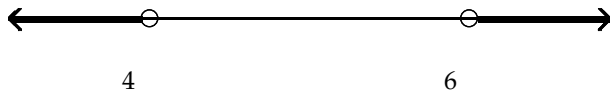
215) $p^2 - 10p + 24 > 0$



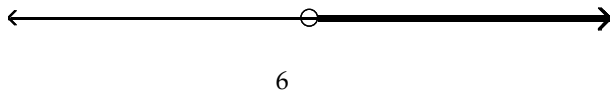
A) $(-\infty, 4)$



B) $(-\infty, 4)$ or $(6, \infty)$



C) $(6, \infty)$



D) $(4, 6)$



Answer: B

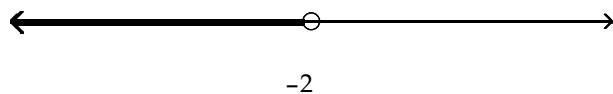
216) $s^2 - 3s - 10 < 0$



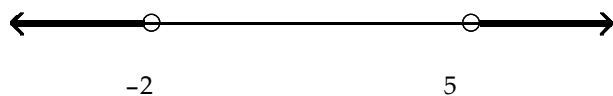
A) $(-2, 5)$



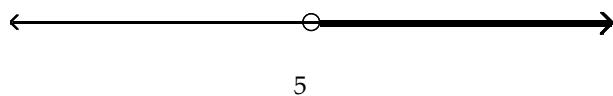
B) $(-\infty, -2)$



C) $(-\infty, -2)$ or $(5, \infty)$



D) $(5, \infty)$

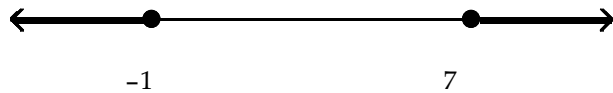


Answer: A

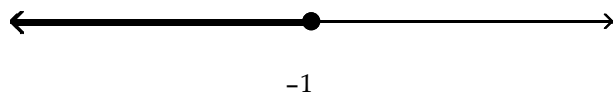
217) $t^2 - 6t - 7 \leq 0$



A) $(-\infty, -1]$ or $[7, \infty)$



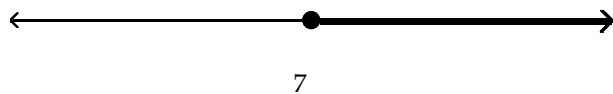
B) $(-\infty, -1]$



C) $[-1, 7]$



D) $[7, \infty)$

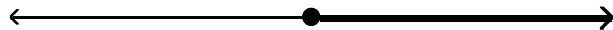


Answer: C

218) $v^2 + 6v + 5 \geq 0$



A) $[-1, \infty)$



-1

B) $(-\infty, -5]$



-5

C) $[-5, -1]$



-5

-1

D) $(-\infty, -5] \text{ or } [-1, \infty)$



-5

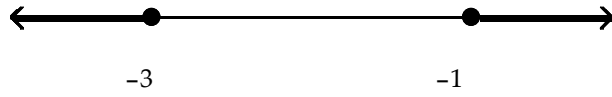
-1

Answer: D

219) $x^2 - 4x \leq -3$



A) $(-\infty, -3]$ or $[-1, \infty)$



B) $(-3, -1)$



C) $[1, 3]$

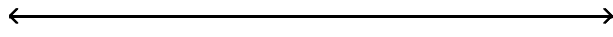


D) $[-3, -1]$



Answer: C

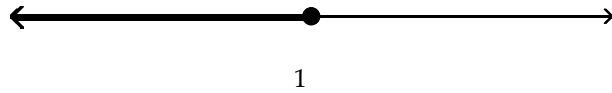
220) $x^2 - 3x \geq -2$



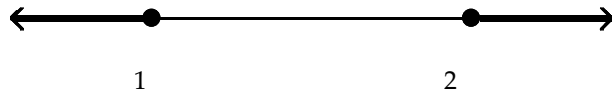
A) $[1, 2]$



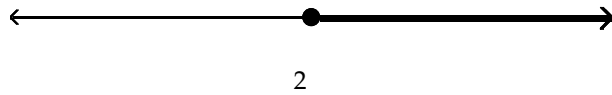
B) $(-\infty, 1]$



C) $(-\infty, 1]$ or $[2, \infty)$



D) $[2, \infty)$

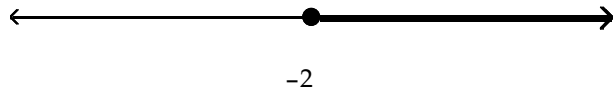


Answer: C

221) $v^2 + 7v + 10 \geq 0$



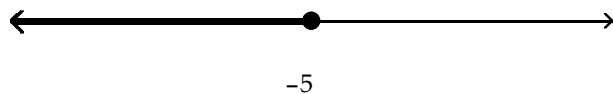
A) $[-2, \infty)$



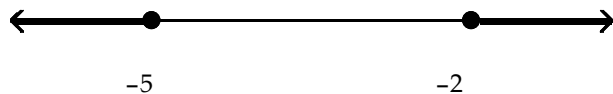
B) $[-5, -2]$



C) $(-\infty, -5]$



D) $(-\infty, -5] \text{ or } [-2, \infty)$



Answer: D

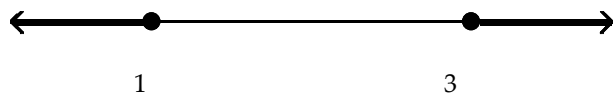
222) $x^2 + 4x \leq -3$



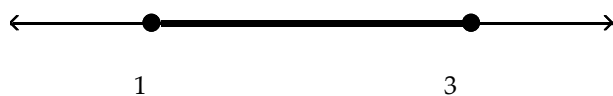
A) $[-3, -1]$



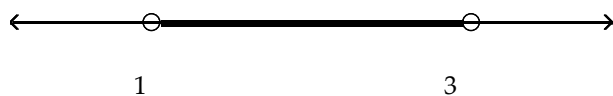
B) $(-\infty, 1]$ or $[3, \infty)$



C) $[1, 3]$



D) $(1, 3)$



Answer: A

223) $x^2 + 7x \geq -12$

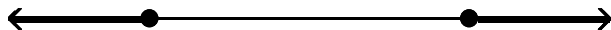


A) $(-\infty, -4]$



-4

B) $(-\infty, -4]$ or $[-3, \infty)$



-4

-3

C) $[-4, -3]$



-4

-3

D) $[-3, \infty)$



-3

Answer: B

Solve the inequality.

224) $(a + 1)(a - 3)(a - 4) > 0$

A) $(4, \infty)$

B) $(-\infty, -1)$ or $(3, 4)$

C) $(-1, 3)$ or $(4, \infty)$

D) $(-\infty, 3)$

Answer: C

225) $(b + 4)(b - 5)(b - 6) < 0$

A) $(-\infty, 5)$

B) $(-4, 5)$ or $(6, \infty)$

C) $(6, \infty)$

D) $(-\infty, -4)$ or $(5, 6)$

Answer: D

226) $(c + 5)(c - 4)(c - 5) > 0$

A) $(-5, 4)$ or $(5, \infty)$

B) $(5, \infty)$

C) $(-\infty, -5)$ or $(4, 5)$

D) $(-\infty, 4)$

Answer: A

227) $(a + 7)(a^2 + 6a + 5) > 0$

A) $(-\infty, -7)$ or $(-5, -1)$

B) $(-1, \infty)$

C) $(-7, -5)$ or $(-1, \infty)$

D) $(-\infty, -5)$

Answer: C

228) $m^3 - 16m \geq 0$

A) $(-4, 0]$ or $[4, \infty)$

B) $[-4, 0)$ or $(4, \infty)$

C) $[-4, 0]$ or $[4, \infty)$

D) $(-4, 0)$ or $(4, \infty)$

Answer: C

- 229) $p^3 - 9p \leq 0$
 A) $(-\infty, -3)$ or $[0, 3]$ B) $(-\infty, -3)$ or $(0, 3)$ C) $(-\infty, -3]$ or $(0, 3)$ D) $(-\infty, -3]$ or $[0, 3]$
 Answer: D
- 230) $12k^3 - 16k^2 \leq 3k$
 A) $\left(-\infty, -\frac{1}{6}\right]$ or $\left[0, \frac{3}{2}\right]$ B) $\left(-\infty, -\frac{1}{6}\right)$ or $\left[0, \frac{3}{2}\right)$ C) $\left(-\infty, -\frac{1}{6}\right)$ or $\left[0, \frac{3}{2}\right]$ D) $\left(-\infty, -\frac{1}{6}\right]$ or $\left[0, \frac{3}{2}\right)$
 Answer: D
- 231) $\frac{-2x+7}{6} > 0$
 A) $(-\infty, 0)$ B) $\left(-\frac{7}{2}, \infty\right)$ C) $\left(-\infty, -\frac{7}{2}\right)$ D) $\left(-\infty, \frac{7}{2}\right)$
 Answer: D
- 232) $\frac{-2}{-2x-2} > 0$
 A) $(0, \infty)$ B) $(-\infty, -1)$ C) $(-1, \infty)$ D) $(-\infty, 1)$
 Answer: C
- 233) $\frac{-4x+6}{5x^2+7} > 0$
 A) $\left(-\infty, \frac{3}{2}\right)$ B) $(-\infty, 0)$ C) $\left(-\infty, -\frac{2}{3}\right)$ D) $\left(-\frac{3}{2}, \infty\right)$
 Answer: A
- 234) $\frac{6x+7}{6x^2+6} > 0$
 A) $\left(-\infty, -\frac{7}{6}\right)$ B) $\left(-\frac{7}{6}, \infty\right)$ C) $(0, \infty)$ D) $\left(-\infty, -\frac{6}{7}\right)$
 Answer: B
- 235) $\frac{3x}{7-x} < x$
 A) $(0, 4)$ or $(7, \infty)$ B) $(7, \infty)$ C) $(-\infty, 4)$ or $(7, \infty)$ D) $(4, 7)$
 Answer: A
- 236) $\frac{2x}{6-x} > x$
 A) $(6, \infty)$ B) $(-\infty, 0)$ or $(4, 6)$ C) $(0, 4)$ or $(6, \infty)$ D) $(-\infty, 4)$ or $(6, \infty)$
 Answer: B
- 237) $\frac{2x}{6-x} \leq 2x$
 A) $[6, \infty)$ B) $[0, 5]$ or $(6, \infty)$ C) $[5, 6]$ D) $(-\infty, 5]$ or $[6, \infty)$
 Answer: B

238) $\frac{5x}{5-x} \geq 5x$

A) $[5, \infty)$

B) $[0, 4]$ or $[5, \infty)$

C) $(-\infty, 0]$ or $[4, 5)$

D) $(-\infty, 4]$ or $[5, \infty)$

Answer: C

239) $\frac{x^2 - 12x + 27}{x - 5} > 0$

A) $(-9, 5)$

B) $(-\infty, -9)$ or $(-3, 5)$

C) $(-\infty, 5)$ or $(-9, \infty)$

D) $(3, 5)$ or $(9, \infty)$

Answer: D

240) $\frac{x^2 + 4x - 5}{x^2 - 2x - 48} < 0$

A) $(-6, -5)$ or $(1, \infty)$

B) $(-5, 1)$ or $(8, \infty)$

C) $(-6, -5)$ or $(1, 8)$

D) $(-\infty, -5)$ or $(-6, 8)$

Answer: C

241) $p^2 + 5p + 4 > 0$

A) $(-\infty, -4)$ or $(-1, \infty)$

B) $(-4, -1)$

C) $(-1, \infty)$

D) $(-\infty, -4)$

Answer: A

242) $s^2 - 4s - 21 < 0$

A) $(-\infty, -3)$ or $(7, \infty)$

B) $(-\infty, -3)$

C) $(7, \infty)$

D) $(-3, 7)$

Answer: D

243) $t^2 - 2t - 3 \leq 0$

A) $[3, \infty)$

B) $[-1, 3]$

C) $(-\infty, -1]$ or $[3, \infty)$

D) $(-\infty, -1]$

Answer: B

244) $v^2 + 5v + 4 \geq 0$

A) $(-\infty, -4]$

B) $(-\infty, -4]$ or $[-1, \infty)$

C) $[-4, -1]$

D) $[-1, \infty)$

Answer: B

245) $x^2 + 7x \leq -12$

A) $(-\infty, 3]$ or $[4, \infty)$

B) $(3, 4)$

C) $[3, 4]$

D) $[-4, -3]$

Answer: D

246) $x^2 + 5x \geq -4$

A) $[-1, \infty)$

B) $(-\infty, -4]$ or $[-1, \infty)$

C) $[-4, -1]$

D) $(-\infty, -4]$

Answer: B

247) $x^2 - 2.17x - 3.51 < 0$

(Give approximations rounded to the nearest hundredth.)

A) $(-\infty, -1.08) \cup (3.25, \infty)$

B) $(3.25, -1.08)$

C) $(-\infty, -3.25) \cup (1.08, \infty)$

D) $(-3.25, 1.08)$

Answer: B

248) $3\pi x^2 - 19x + \sqrt{5} > 0$

(Give approximations rounded to the nearest hundredth.)

A) (1.89, 0.13)

B) (-1.89, -0.13)

C) $(-\infty, 1.89) \cup (0.13, \infty)$

D) $(-\infty, -1.89) \cup (-0.13, \infty)$

Answer: A

249) $\frac{x^2 + 2x - 8}{x^2 - 2x - 48} < 0$

A) (-4, 2) or (8, ∞)

B) $(-\infty, -4)$ or $(-6, 8)$

C) $(-6, -4)$ or $(2, \infty)$

D) $(-6, -4)$ or $(2, 8)$

Answer: C

Solve the problem.

250) The profit made when t units are sold, $t > 0$, is given by $P = t^2 - 22t + 120$. Determine the number of units to be sold in order for $P = 0$ (the break-even point).

A) $t = 22$

B) $t = 12$ or $t = 10$

C) $t = -12$ or $t = -10$

D) $t > 12$

Answer: B

251) The profit made when t units are sold, $t > 0$, is given by $P = t^2 - 28t + 180$. Determine the number of units to be sold in order for $P > 0$ (a profit is made).

A) $t > 18$ or $t < 10$

B) $t = 18$ or $t = 10$

C) $18 < t < 10$

D) $t = 28$

Answer: A

252) The profit made when t units are sold, $t > 0$, is given by $P = t^2 - 26t + 165$. Determine the number of units to be sold in order for $P < 0$ (a loss is taken).

A) $t < 11$ or $t > 15$

B) $t > 0$

C) $11 < t < 15$

D) $t = 11$ or $t = 15$

Answer: C

253) The cost of producing t units is $C = 5t^2 + 5t$, and the revenue generated from sales is $R = 6t^2 + t$. Determine the number of units to be sold in order to generate a profit.

A) $t > 4$

B) $t > 5$

C) $t > 6$

D) $t > 0$

Answer: A

254) A rectangular enclosure must have an area of at least 500 yd². If 120 yd of fencing is to be used, and the width cannot exceed the length, within what limits must the width of the enclosure lie?

A) $10 \leq w \leq 30$

B) $30 \leq w \leq 50$

C) $0 \leq w \leq 10$

D) $10 \leq w \leq 50$

Answer: A

255) A coin is tossed upward from a balcony 252 ft high with an initial velocity of 16 ft/sec. During what interval of time will the coin be at a height of at least 60 ft? ($h = -16t^2 + v_0t + h_0$.)

A) $0 \leq t \leq 1$

B) $3 \leq t \leq 4$

C) $4 \leq t \leq 8$

D) $0 \leq t \leq 4$

Answer: D

256) A retailer knows that n games can be sold in a month if the price is $30 - 0.3n$ dollars per game. If he buys each game for \$3, and if he wishes to make a profit of at least \$600 per month on sales of this game, how many games must he sell each month?

A) $25 \leq n \leq 45$

B) $40 \leq n \leq 50$

C) $40 \leq n \leq 90$

D) $25 \leq n \leq 40$

Answer: B

257) If a rocket is propelled upward from ground level, its height in meters after t seconds is given by

$h = -9.8t^2 + 117.6t$. During what interval of time will the rocket be higher than 343 m?

A) $10 < t < 12$

B) $0 < t < 5$

C) $7 < t < 10$

D) $5 < t < 7$

Answer: D

258) A flare fired from the bottom of a gorge is visible only when the flare is above the rim. If it is fired with an initial velocity of 192 ft/sec, and the gorge is 560 ft deep, during what interval can the flare be seen?

($h = -16t^2 + v_0t + h_0$.)

A) $10 < t < 12$

B) $15 < t < 17$

C) $0 < t < 5$

D) $5 < t < 7$

Answer: D

Answer Key

Testname: UNTITLED2

- 1) A
- 2) A
- 3) B
- 4) A
- 5) A
- 6) A
- 7) B
- 8) B
- 9) D
- 10) A
- 11) A
- 12) D
- 13) D
- 14) A
- 15) B
- 16) C
- 17) D
- 18) D
- 19) D
- 20) B
- 21) D
- 22) C
- 23) A
- 24) A
- 25) B
- 26) A
- 27) A
- 28) A
- 29) B
- 30) A
- 31) C
- 32) C
- 33) C
- 34) D
- 35) A
- 36) C
- 37) A
- 38) B
- 39) C
- 40) A
- 41) D
- 42) A
- 43) C
- 44) A
- 45) C
- 46) C
- 47) B
- 48) D
- 49) A
- 50) C

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

- 101) A
- 102) B
- 103) C
- 104) B
- 105) B
- 106) B
- 107) C
- 108) B
- 109) D
- 110) D
- 111) C
- 112) A
- 113) C
- 114) A
- 115) D
- 116) B
- 117) C
- 118) B
- 119) B
- 120) D
- 121) B
- 122) A
- 123) C
- 124) D
- 125) B
- 126) A
- 127) D
- 128) B
- 129) A
- 130) D
- 131) D
- 132) B
- 133) B
- 134) D
- 135) A
- 136) C
- 137) C
- 138) A
- 139) B
- 140) B
- 141) C
- 142) B
- 143) B
- 144) D
- 145) B
- 146) D
- 147) B
- 148) C
- 149) C
- 150) B

Answer Key

Testname: UNTITLED2

- 151) C
- 152) C
- 153) C
- 154) D
- 155) D
- 156) B
- 157) D
- 158) B
- 159) A
- 160) C
- 161) D
- 162) A
- 163) C
- 164) D
- 165) D
- 166) C
- 167) D
- 168) A
- 169) D
- 170) A
- 171) A
- 172) D
- 173) B
- 174) A
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- 176) C
- 177) D
- 178) C
- 179) A
- 180) D
- 181) B
- 182) C
- 183) D
- 184) D
- 185) D
- 186) A
- 187) C
- 188) A
- 189) A
- 190) A
- 191) C
- 192) A
- 193) C
- 194) B
- 195) A
- 196) A
- 197) A
- 198) B
- 199) B
- 200) A

Answer Key

Testname: UNTITLED2

- 201) B
- 202) C
- 203) B
- 204) B
- 205) C
- 206) D
- 207) B
- 208) B
- 209) D
- 210) C
- 211) D
- 212) D
- 213) A
- 214) A
- 215) B
- 216) A
- 217) C
- 218) D
- 219) C
- 220) C
- 221) D
- 222) A
- 223) B
- 224) C
- 225) D
- 226) A
- 227) C
- 228) C
- 229) D
- 230) D
- 231) D
- 232) C
- 233) A
- 234) B
- 235) A
- 236) B
- 237) B
- 238) C
- 239) D
- 240) C
- 241) A
- 242) D
- 243) B
- 244) B
- 245) D
- 246) B
- 247) B
- 248) A
- 249) C
- 250) B

Answer Key

Testname: UNTITLED2

251) A

252) C

253) A

254) A

255) D

256) B

257) D

258) D