

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

If  $x = -4$  and  $y = -2$ , evaluate the expression.

1)  $\frac{12 - 6x}{y + 2}$

A) -9

B) 0

C) 3

D) undefined

1) \_\_\_\_\_

Evaluate the expression.

2)  $(-6)^3$

A) 18

B) -216

C) -18

D) 216

2) \_\_\_\_\_

3)  $10 \cdot 2^3$

A) 60

B) 80

C) 8000

D) 18

3) \_\_\_\_\_

Evaluate the expression with the given replacement values.

4)  $x^5; x = -3$

A) -243

B) -15

C) 15

D) 243

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

5)  $7x^2; x = 5$

A) 1225

B) 70

C) 245

D) 175

5) \_\_\_\_\_

6)  $-6x^3y; x = 4$  and  $y = -7$

A) 504

B) 672

C) -2688

D) 2688

6) \_\_\_\_\_

Simplify the expression. Write the result using positive exponents only.

7)  $\frac{8p^{-7}}{7p^8}$

A)  $\frac{8p^{56}}{7}$

B)  $\frac{8}{7p^{15}}$

C)  $\frac{8p^{15}}{7}$

D)  $\frac{8}{7p^{56}}$

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

8)  $\frac{x^4x^9}{x^5}$

A)  $x^8$ B)  $x^{33}$ C)  $x^{31}$ D)  $x^{18}$ 

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

Use the product rule to simplify the expression. Write the result using exponents.

9)  $8^9 \cdot 8^3$

A)  $8^{12}$ B)  $64^{27}$ C)  $8^{27}$ D)  $64^{12}$ 

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

10)  $(4p^2)(-8p^8)$

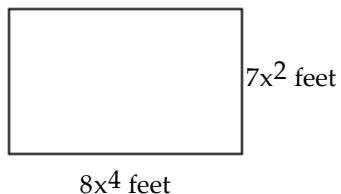
A)  $32p^{10}$ B)  $-32p^{10}$ C)  $32p^{16}$ D)  $-32p^{16}$ 

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

**Solve.**

- 11) The rectangle has width  $7x^2$  feet and length  $8x^4$  feet. Find its area as an expression in x.  
(Area = length • width)

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



- A)  $15x^8$  sq ft      B)  $56x^8$  sq ft      C)  $56x^6$  sq ft      D)  $15x^6$  sq ft

**Use the power rule to simplify the expression.**

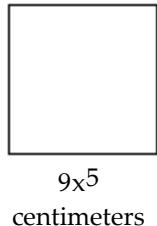
- 12)  $(5^4)^8$   
A)  $25^4$       B)  $5^{12}$       C)  $5^{32}$       D)  $25^{32}$

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

**Solve.**

- 13) The square has sides of length  $9x^5$  centimeters. Find its area. ( $A = s^2$ )

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



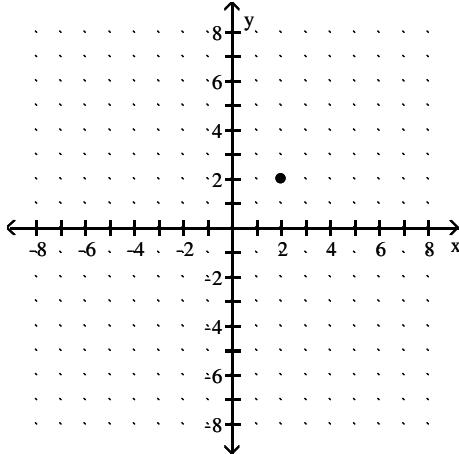
- A)  $81x^{25}$  sq cm      B)  $18x^{25}$  sq cm      C)  $18x^{10}$  sq cm      D)  $81x^{10}$  sq cm

**Plot the ordered pair. State in which quadrant or on which axis the point lies.**

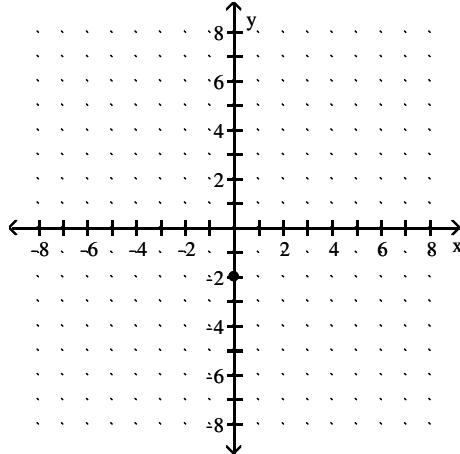
14)  $(-2, 0)$

14) \_\_\_\_\_

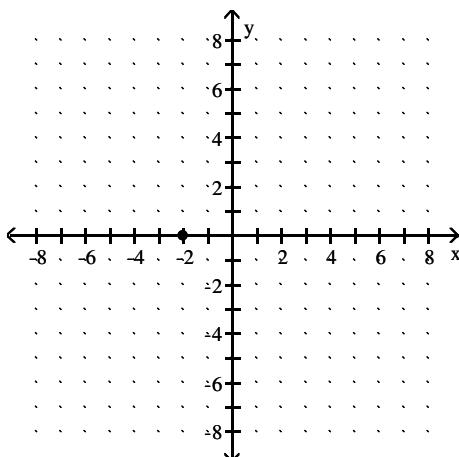
A) quadrant I



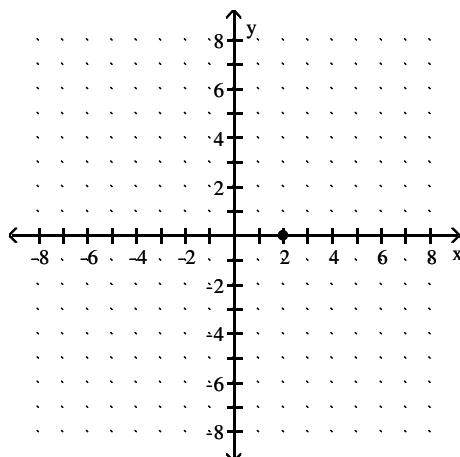
B) y-axis



C) x-axis



D) x-axis



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

15)  $2x + 6y = -4; (0, -2)$

15) \_\_\_\_\_

A) yes

B) no

16)  $x = 8y; (0, 0)$

16) \_\_\_\_\_

A) yes

B) no

**Use the power rule and the power of a product or quotient rule to simplify the expression.**

17)  $(2a)^5$

17) \_\_\_\_\_

A)  $32a^5$

B)  $10a$

C)  $10a^5$

D)  $32a$

18)  $(-4a)^2$

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

A)  $16a^2$

B)  $-8a^2$

C)  $-8a$

D)  $16a$

19)  $(x^7y)^2$

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

A)  $x^{14}y^2$

B)  $x^9y$

C)  $x^{14}y$

D)  $x^9y^3$

20)  $(4p^5)^4$

A)  $256p^{20}$

B)  $256p^5$

C)  $4p^{20}$

D)  $256p^9$

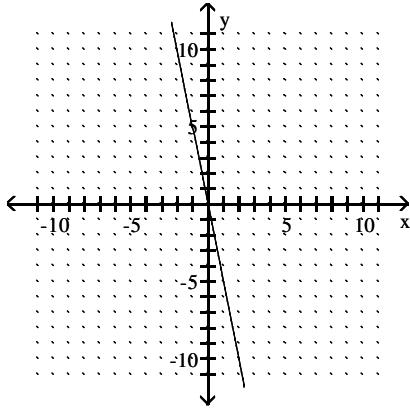
20) \_\_\_\_\_

**Graph the linear equation.**

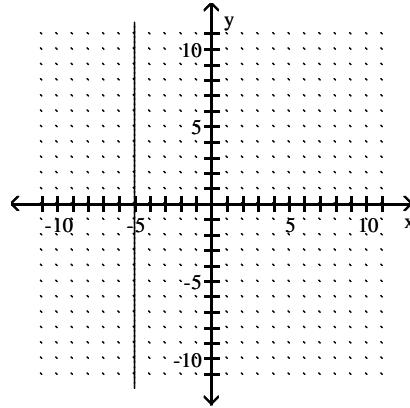
21)  $x = -5y$

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

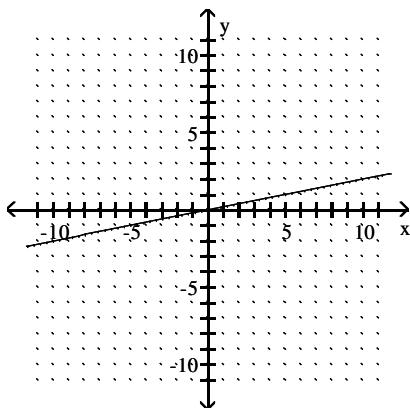
A)



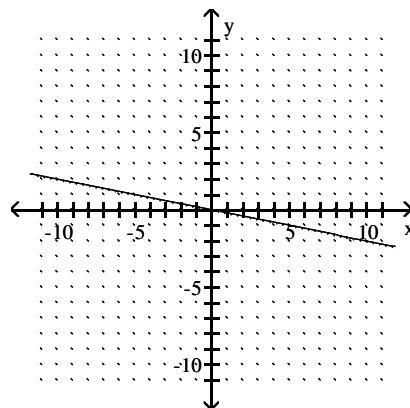
B)



C)



D)

**Use the power rule and the power of a product or quotient rule to simplify the expression.**

22)  $\left(\frac{xy}{4}\right)^4$

A)  $\frac{x^4y^4}{4}$

B)  $\frac{x^4y^4}{256}$

C)  $\frac{xy^4}{256}$

D)  $\frac{xy}{256}$

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

**Use the quotient rule to simplify the expression.**

23)  $\frac{x^{14}}{x^{13}}$

A)  $x^{14} - x^{13}$

B)  $\frac{1}{x}$

C)  $x$

D)  $x^{27}$

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

24)  $\frac{s^{10}t^4}{s^2t}$

A)  $s^{12}t^5$

B)  $s^8t^4$

C)  $s^8t^3$

D)  $s^8t^2$

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

**Simplify the expression.**

25)  $-9y^0$

A) -8

B) 0

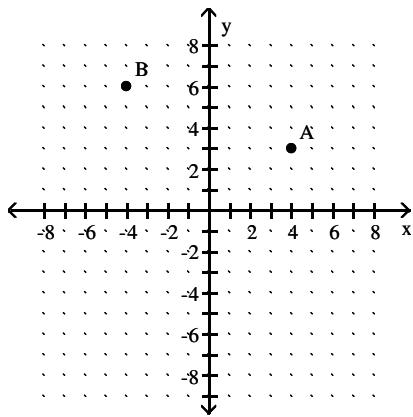
C) -9

D) 1

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

**Find the x- and y-coordinates of the following labeled points.**

26)



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

- B) A(3, 24); B(6, -4)  
D) A(4, 6); B (3, 6)

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

**Solve the system of equations by the addition method.**

27) 
$$\begin{cases} \frac{x}{5} + \frac{y}{15} = 1 \\ \frac{x}{4} - \frac{y}{12} = 0 \end{cases}$$

A) infinite number of solutions

B) no solution

C)  $\left(\frac{15}{2}, \frac{5}{2}\right)$

D)  $\left(\frac{5}{2}, \frac{15}{2}\right)$

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

**Write a system of equations in x and y describing the situation. Do not solve the system.**

- 28) An order of 4 orders of fries, 4 hamburgers, and 5 drinks costs \$17. An order of 3 orders of fries, 5 hamburgers, and 2 drinks costs \$15. All drinks are \$1. 28) \_\_\_\_\_

A)  $\begin{cases} (4x)(4y) + 5 = 17 \\ (3x)(5y) + 2 = 15 \end{cases}$

B)  $\begin{cases} 4x + 4y + 5 = 17 \\ 3x + 5y + 2 = 15 \end{cases}$

C)  $\begin{cases} 4x + 4y + 1 = 17 \\ 3x + 5y + 1 = 15 \end{cases}$

D)  $\begin{cases} 4x + 4y + 5 = 12 \\ 3x + 5y + 2 = 13 \end{cases}$

**Find the degree of the following polynomial and determine whether it is a monomial, binomial, trinomial, or none of these.**

- 29)  $-17x$  29) \_\_\_\_\_  
A) 0; binomial      B) 0; monomial      C) 1; monomial      D) -17; monomial

- 30)  $5y^6 - 5$  30) \_\_\_\_\_  
A) 7; binomial      B) 0; binomial      C) 6; binomial      D) 5; monomial

- 31)  $-17s^5 - 7s + 5$  31) \_\_\_\_\_  
A) 7; trinomial      B) 5; trinomial      C) 6; binomial      D) 6; trinomial

**Simplify.**

- 32) If  $P(x) = -3x + 6$ , find  $P(-5)$ . 32) \_\_\_\_\_  
A) -9      B) 9      C) 21      D) -21

- 33) If  $Q(x) = x^2 - 9$ , find  $Q(2)$ . 33) \_\_\_\_\_  
A) -7      B) 49      C) 4      D) -5

- 34) If  $P(x) = 7x^2 + 5$ , find  $P(0)$ . 34) \_\_\_\_\_  
A) -5      B) 0      C) 5      D) 12

**Simplify the following by combining like terms.**

- 35)  $4x^4 + 5x^4 - 3x^4$  35) \_\_\_\_\_  
A)  $-60x^4$       B)  $6x^{12}$       C)  $6x^4$       D) cannot be simplified

- 36)  $8x^5 + 3x^4 - 3x^5$  36) \_\_\_\_\_  
A)  $5x^5 + 3x^4$       B)  $8x^{14}$       C)  $8x^4$       D) cannot be simplified

- 37)  $-3r - 14r^4 - 15r^4 - 9r$  37) \_\_\_\_\_  
A)  $-41r^4$       B)  $-41r$       C)  $-12r - 29r^4$       D) cannot be simplified

**Perform the indicated operation.**

- 38)  $(8x + 11) + (10x + 7)$  38) \_\_\_\_\_  
A)  $18x + 18$       B)  $18x^2 + 18$       C)  $18x - 18$       D)  $80x^2 + 77$

39)  $(-19x - 10) - (6x + 13)$

A)  $-13x + 3$

B)  $-48x^2$

C)  $-25x + 3$

D)  $-25x - 23$

39) \_\_\_\_\_

40)  $(-8y + 8) + (-5y^2 + 4y - 4)$

A)  $-12y^2 - 5y + 4$

B)  $-5y^2 - 4y + 12$

C)  $-5y^2 + 4y + 4$

D)  $-5y^2 - 4y + 4$

40) \_\_\_\_\_

41)  $7z - (14 - 4z)$

A)  $11z - 14$

B)  $11z + 14$

C)  $3z - 14$

D)  $3z + 14$

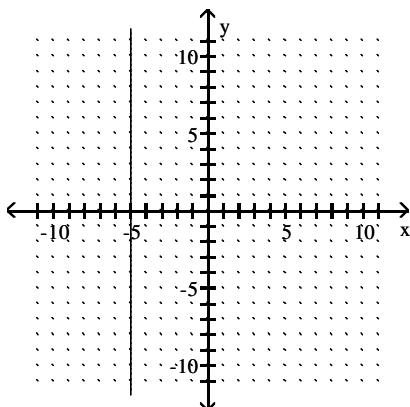
41) \_\_\_\_\_

**Graph the linear equation.**

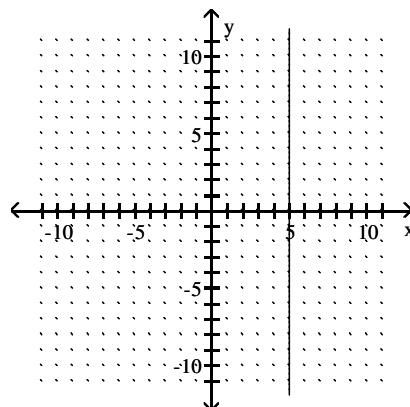
42)  $x = 5$

42) \_\_\_\_\_

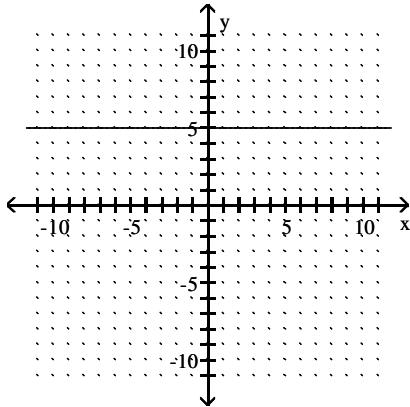
A)



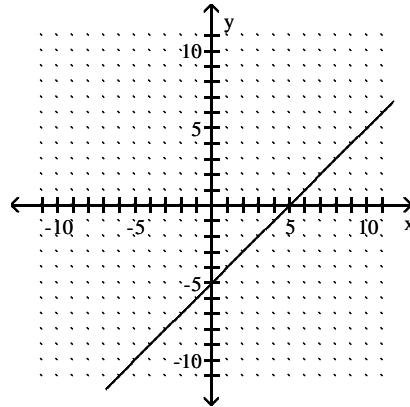
B)



C)

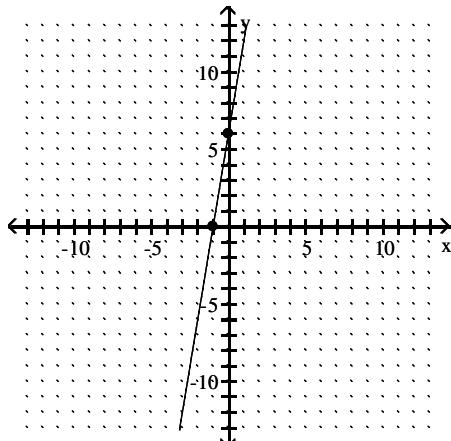


D)



**Identify the intercepts.**

43)



- A)  $(-1, 0), (0, 6)$       B)  $(-6, 0), (0, 6)$

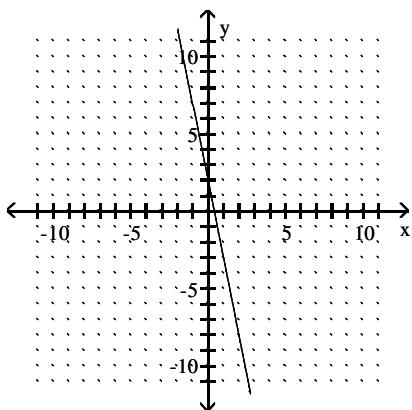
- C)  $(-1, 0), (0, -6)$       D)  $(1, 0), (0, 6)$

43) \_\_\_\_\_

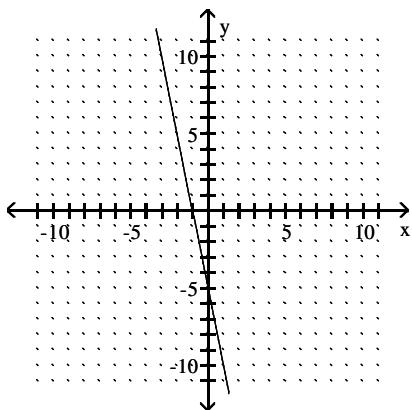
**Match the graph with its equation.**

44)  $y = -5x - 2$

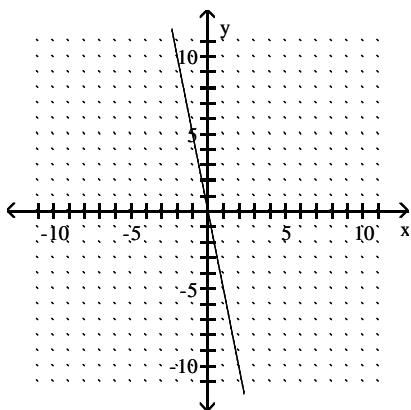
A)



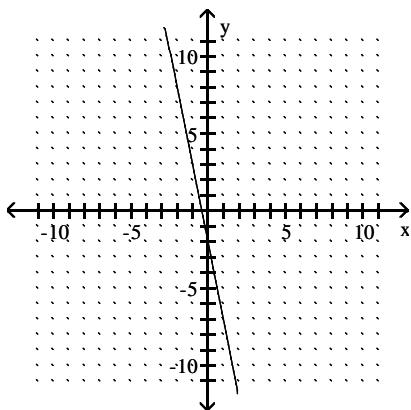
C)



B)



D)

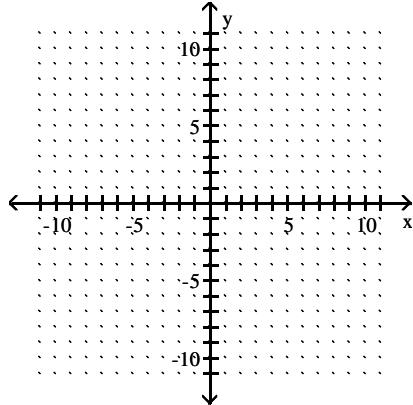


44) \_\_\_\_\_

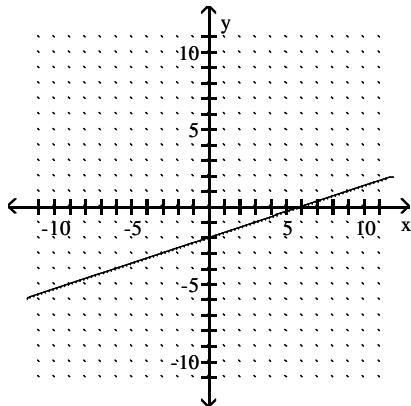
**Graph the linear equation.**

45)  $-4x + 12y = 24$

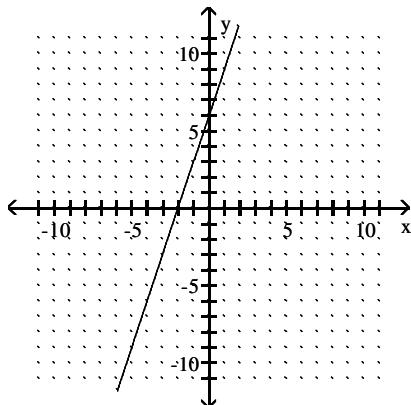
45) \_\_\_\_\_



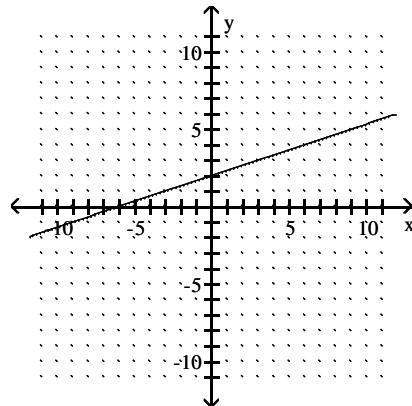
A)



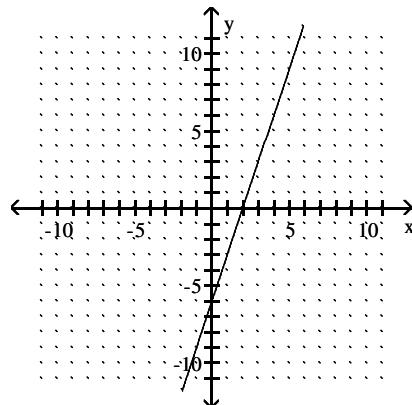
C)



B)



D)



**Find the slope of the line.**

46)  $x + y = 3$

46) \_\_\_\_\_

- A)  $m = -1$
- C)  $m = 1$

- B)  $m = 0$
- D) undefined slope

47)  $y = 9$

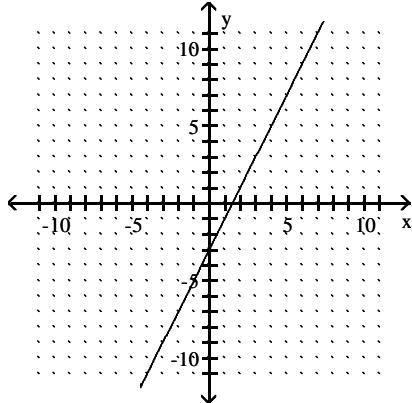
47) \_\_\_\_\_

- A)  $m = 1$
- C) undefined slope

- B)  $m = 0$
- D)  $m = 9$

**Find the slope of the line if it exists.**

48)



48) \_\_\_\_\_

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

B) 2

C)  $\frac{1}{2}$

D) -2

**Perform the indicated operation.**

49) Subtract  $x$  from  $x^3 - 6x - 15$ .

49) \_\_\_\_\_

A)  $x^3 - 7x - 15$

B)  $-x^3 + 7x + 15$

C)  $-x^3 - 7x + 15$

D)  $x^3 - 5x - 15$

50) Subtract  $(-9x^2 - 3x + 2)$  from  $(-x^2 - 6x + 7)$ .

50) \_\_\_\_\_

A)  $8x^2 + 3x + 5$

B)  $-10x^2 - 9x + 9$

C)  $10x^2 - 3x + 9$

D)  $8x^2 - 3x + 5$

**Simplify the expression. Write the result using positive exponents only.**

51)  $(-5)^{-4}$

51) \_\_\_\_\_

A) -625

B)  $-\frac{1}{625}$

C) 625

D)  $\frac{1}{625}$

52)  $-5^{-3}$

52) \_\_\_\_\_

A)  $-\frac{1}{125}$

B)  $\frac{1}{15}$

C) 125

D) -125

**Multiply.**

53)  $6x^5(-9x^4)$

53) \_\_\_\_\_

A)  $-54x^{20}$

B)  $54x^9$

C)  $-54x^9$

D)  $54x^{20}$

54)  $(4.8x^3)(4x^7)$

54) \_\_\_\_\_

A)  $192x^{21}$

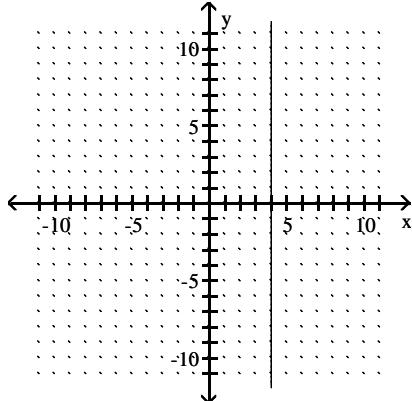
B)  $1.92x^{10}$

C)  $19.2x^{10}$

D)  $19.2x^{21}$

**Find the slope of the line if it exists.**

55)



55) \_\_\_\_\_

- A) undefined slope  
C) 4

- B) -4  
D) 0

**Find the slope of the line.**

56)  $x = -2$

- A)  $m = 0$   
C)  $m = 1$

- B)  $m = -1$   
D) undefined slope

56) \_\_\_\_\_

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

57)  $6x + 2y = 8$

$$27x + 9y = 39$$

- A) parallel

- B) perpendicular

- C) neither

57) \_\_\_\_\_

58)  $y = 4x - 4$

$$x - 4y = 5$$

- A) parallel

- B) perpendicular

- C) neither

58) \_\_\_\_\_

**Multiply.**

59)  $-7x(9x + 6)$

A)  $-63x^2 + 6x$

B)  $-63x^2 - 42x$

C)  $9x^2 - 42x$

D)  $-105x^2$

59) \_\_\_\_\_

60)  $-2x(2x^2 - 7x + 6)$

A)  $-4x^3 - 7x + 6$

C)  $-4x^3 + 14x^2 - 12x$

B)  $-4x^2 + 14x - 12$

D)  $-4x^3 + 14x^2 - 12$

60) \_\_\_\_\_

61)  $\left(x - \frac{1}{2}\right)\left(x - \frac{3}{8}\right)$

A)  $x^2 - \frac{7}{8}x + \frac{3}{16}$

B)  $x^2 - \frac{19}{32}x - \frac{5}{32}$

C)  $x^2 - \frac{19}{32}x + \frac{3}{16}$

D)  $x^2 - \frac{1}{8}x + \frac{3}{16}$

61) \_\_\_\_\_

62)  $(b - 9)(b - 7)$

A)  $b^2 - 16b + 63$

B)  $2b + 63$

C)  $2b^2 - 63$

D)  $b^2 + 16b - 63$

62) \_\_\_\_\_

63)  $(6x - 10)(4x - 9)$

A)  $10x^2 - 94x + 90$

B)  $10x^2 - 94x - 94$

C)  $24x^2 - 94x + 90$

D)  $24x^2 - 94x - 94$

63) \_\_\_\_\_

**Solve.**

- 64) Khang and Hector live 18 miles apart in southeastern Missouri. They decide to bicycle towards each other and meet somewhere in between. Hector's rate of speed is 80% of Khang's. They start out at the same time and meet 2 hours later. Find Hector's rate of speed.

64) \_\_\_\_\_

- A) 4 mph      B) 10 mph      C) 5 mph      D) 18 mph

- 65) To the nearest dollar, the average tuition at a public four-year college was \$3117 in 1997 and \$3317 in 1998. Use the ordered pairs (1997, \$3117) and (1998, \$3317) to find and interpret the slope of the line representing the change in tuition (to the nearest dollar per year).

65) \_\_\_\_\_

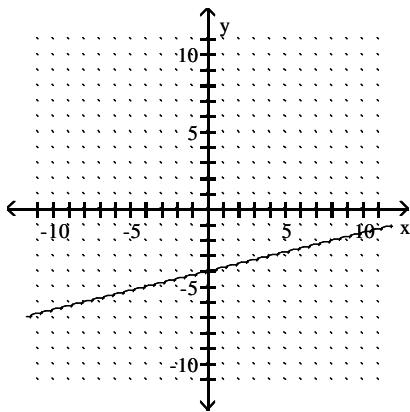
- A) tuition increased \$200 per year      B) tuition decreased \$200 per year  
C) tuition increased \$211 per year      D) tuition increased \$217 per year

**Graph the linear equation by finding and plotting its intercepts.**

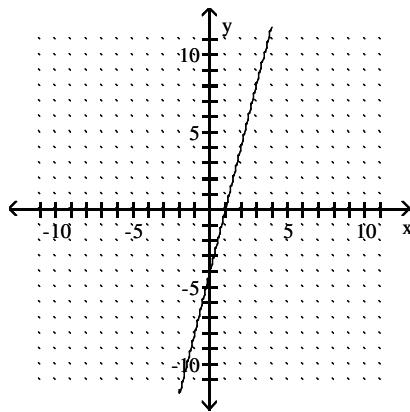
66)  $y = \frac{1}{4}x - 4$

66) \_\_\_\_\_

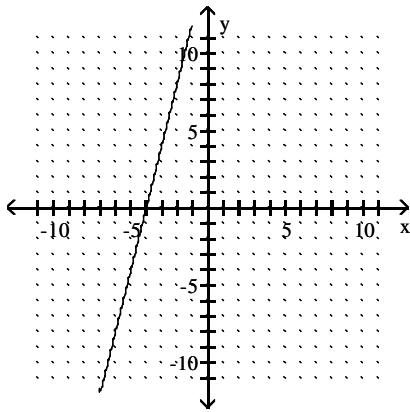
A)



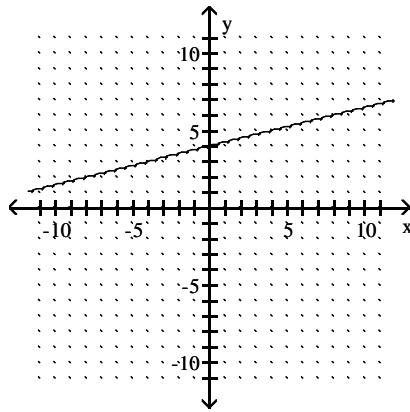
B)



C)



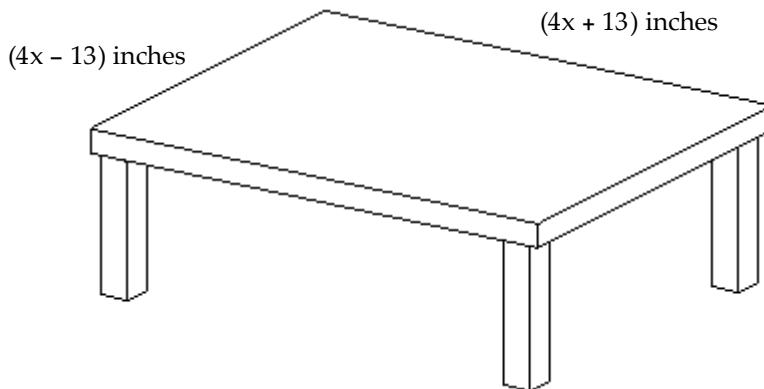
D)



**Solve.**

- 67) Find the area of the top of the table. Express the area as a product, then multiply and simplify.

67) \_\_\_\_\_



- A)  $(16x^2 - 104x - 169)$  sq in.  
B)  $(x^2 - 169)$  sq in.  
C)  $(16x^2 + 104x - 169)$  sq in.  
D)  $(16x^2 - 169)$  sq in.

**Multiply using the FOIL method.**

68)  $(b - 9)(b - 4)$

- A)  $2b^2 - 36$       B)  $b^2 + 13b - 36$       C)  $b^2 - 13b + 36$       D)  $2b + 36$

68) \_\_\_\_\_

**Multiply.**

69)  $(p + 4q)(p - 4q)$

- A)  $p^2 - 16q^2$   
B)  $p^2 - 8pq - 16q^2$   
C)  $p^2 - 8q^2$   
D)  $p^2 + 8pq - 16q^2$

69) \_\_\_\_\_

**Simplify the expression. Write the result using positive exponents only.**

70)  $3^{-2}$

- A)  $\frac{1}{6}$       B)  $-9$       C)  $\frac{1}{9}$       D)  $9$

70) \_\_\_\_\_

**Multiply using the FOIL method.**

71)  $(4x - 1)(4x + 5)$

- A)  $8x^2 + 4$       B)  $16x^2 + 16x - 5$       C)  $16x^2 + 24x - 5$       D)  $16x^2 - 5$

71) \_\_\_\_\_

72)  $(b - 8)(b + 3)$

- A)  $b^2 - 5b - 24$       B)  $b^2 + 5b + 24$       C)  $2b - 24$       D)  $2b^2 + 24$

72) \_\_\_\_\_

**Multiply.**

73)  $(y - 4)^2$

- A)  $16y^2 - 8y + 16$       B)  $y^2 + 16$       C)  $y + 16$       D)  $y^2 - 8y + 16$

73) \_\_\_\_\_

74)  $(5p + 6)(5p - 6)$

- A)  $p^2 - 36$   
B)  $25p^2 + 60p - 36$   
C)  $25p^2 - 36$   
D)  $25p^2 - 60p - 36$

74) \_\_\_\_\_

75)  $(3a - 4)^2$  \_\_\_\_\_  
 A)  $9a^2 + 16$       B)  $9a^2 - 24a + 16$       C)  $3a^2 - 24a + 16$       D)  $3a^2 + 16$

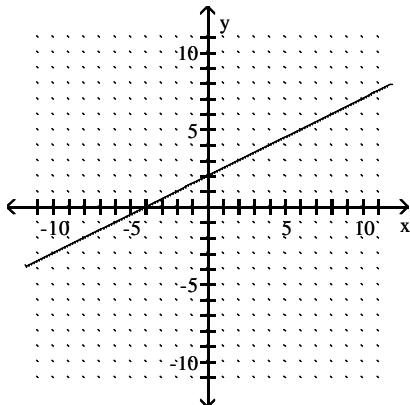
76)  $(x + 7)^2$  \_\_\_\_\_  
 A)  $x^2 + 49$       B)  $x^2 + 14x + 49$       C)  $x + 49$       D)  $49x^2 + 14x + 49$

77)  $(a - 9)(a + 9)$  \_\_\_\_\_  
 A)  $a^2 + 18a - 81$       B)  $a^2 - 18a - 81$       C)  $a^2 - 81$       D)  $a^2 - 18$

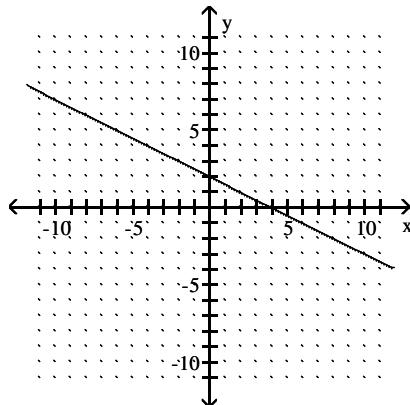
Use the slope-intercept form to graph the equation.

78)  $y = -\frac{1}{2}x + 2$  \_\_\_\_\_

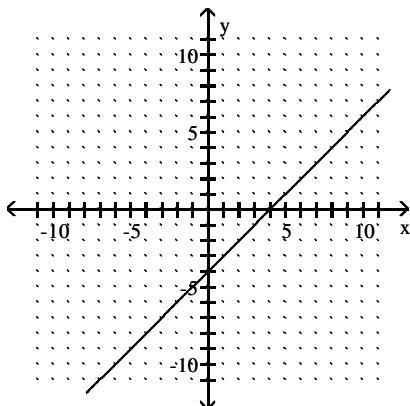
A)



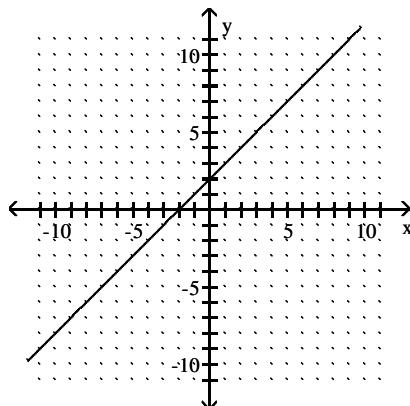
B)



C)



D)



Find an equation of the line described. Write the equation in slope-intercept form if possible.

79) Slope  $-\frac{8}{9}$ , through  $(4, 2)$  \_\_\_\_\_

A)  $y = -\frac{8}{9}x - \frac{50}{9}$       B)  $y = -\frac{8}{9}x + \frac{50}{9}$       C)  $y = \frac{8}{9}x - \frac{50}{9}$       D)  $y = -\frac{9}{8}x - \frac{25}{4}$

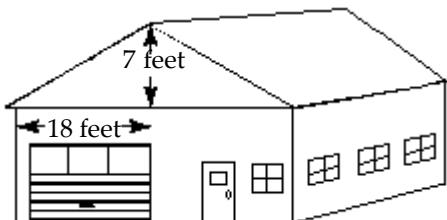
Find an equation of the line through the pair of points. Write the equation in the form  $Ax + By = C$ .

80)  $(9, -8)$  and  $(0, 3)$  \_\_\_\_\_  
 A)  $11x + 9y = 27$       B)  $17x - 3y = -9$       C)  $-11x + 9y = 27$       D)  $-17x + 3y = -9$

**Solve.**

- 81) The pitch of a roof is its slope. Interpret the pitch of the roof shown.

81) \_\_\_\_\_



- A) For each horizontal distance of 7 feet, the roof height increases by 18 feet.
- B) For each horizontal distance of 7 feet, the roof height decreases by 18 feet.
- C) For each horizontal distance of 18 feet, the roof height increases by 7 feet.
- D) For each horizontal distance of 18 feet, the roof height decreases by 7 feet.

**Write an equation of the line with the given slope,  $m$ , and  $y$ -intercept  $(0, b)$ .**

82)  $m = \frac{1}{2}$ ,  $b = 0$

82) \_\_\_\_\_

A)  $x = \frac{1}{2}$

B)  $y = 0$

C)  $y = \frac{1}{2}$

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

83)  $m = -4$ ,  $b = \frac{1}{2}$

83) \_\_\_\_\_

A)  $y = -\frac{1}{2}x - 4$

B)  $y = 4x + \frac{1}{2}$

C)  $y = \frac{1}{2}x + 4$

D)  $y = -4x + \frac{1}{2}$

**Solve. Assume the exercise describes a linear relationship.**

- 84) A gas station sells 4820 gallons of regular unleaded gasoline in a day when they charge \$1.35 per gallon, whereas they sell 3885 gallons on a day that they charge \$1.40 per gallon. Find a linear equation that relates gallons sold to price. Use this equation to predict the number of gallons sold at a price of \$1.22 per gallon.

84) \_\_\_\_\_

A) 7260 gal

B) 7247.7 gal

C) 7255.1 gal

D) 7251 gal

- 85) An investment is worth \$2401 in 1994. By 1997 it has grown to \$3520. Let  $y$  be the value of the investment in the year  $x$ , where  $x = 0$  represents 1994. Write a linear equation that models the value of the investment in the year  $x$ .

85) \_\_\_\_\_

A)  $y = \frac{1}{373}x + 2401$

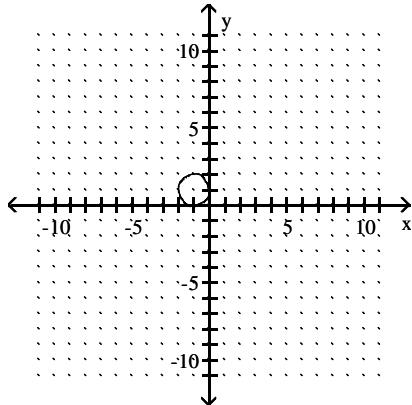
B)  $y = 373x + 2401$

C)  $y = -373x + 2401$

D)  $y = -373x + 4639$

Determine whether the graph is the graph of a function.

86)



A) yes

B) no

86) \_\_\_\_\_

Evaluate the function.

87) Find  $f(5)$  when  $f(x) = 3x^3$

A) 375

B) 75

C) 125

D) 45

87) \_\_\_\_\_

Determine whether the ordered pair is a solution of the system of linear equations.

88)  $(6, 7)$ ;

$$\begin{cases} 3x = 25 - y \\ x + 3y = 27 \end{cases}$$

A) Yes

B) No

88) \_\_\_\_\_

89)  $(2, 5)$ ;

$$\begin{cases} x + y = 3 \\ x - y = -7 \end{cases}$$

A) Yes

B) No

89) \_\_\_\_\_

Solve the system of equations by either the addition method or the substitution method.

$$\begin{cases} x = 7y + 10 \\ 3x - 8y = 4 \end{cases}$$

A)  $(-5, -1)$

B)  $(4, -1)$

C) no solution

D)  $(-4, -2)$

90) \_\_\_\_\_

Without graphing, decide:

(a) Are the graphs of the equations are identical lines, parallel lines, or lines intersecting at a single point?

(b) How many solutions does the system have?

$$\begin{cases} 3x - y = 8 \\ x + 4y = 20 \end{cases}$$

A) parallel lines; no solution

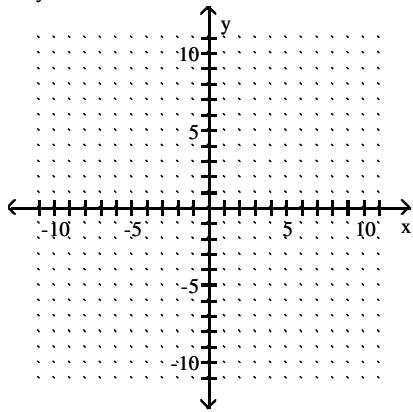
B) identical lines; infinite number of solutions

C) lines intersecting at a single point; one solution

91) \_\_\_\_\_

Solve the system of equations by graphing.

$$92) \begin{cases} 2x + y = 2 \\ 3x + y = 1 \end{cases}$$



A)  $(-1, 4)$

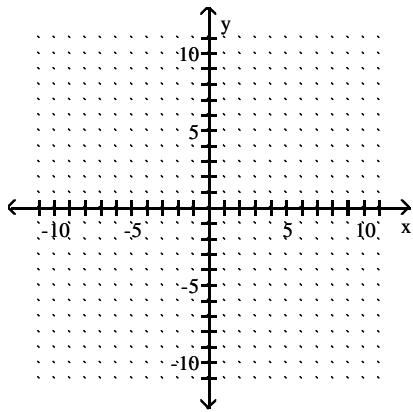
B)  $(4, -1)$

C) no solution

D)  $(1, -4)$

92) \_\_\_\_\_

$$93) \begin{cases} x + y = 5 \\ x - y = 3 \end{cases}$$



A)  $(4, 1)$

B)  $(4, -1)$

C) no solution

D)  $(1, 4)$

93) \_\_\_\_\_

Without graphing, decide:

(a) Are the graphs of the equations identical lines, parallel lines, or lines intersecting at a single point?

(b) How many solutions does the system have?

$$94) \begin{cases} x = -y \\ y + x = -4 \end{cases}$$

94) \_\_\_\_\_

- A) lines intersecting at a single point; one solution
- B) parallel lines; no solution
- C) identical lines; infinite number of solutions

Solve the system of equations by the substitution method.

$$95) \begin{cases} -3x - 2y = -126 \\ x = 4y \end{cases}$$

95) \_\_\_\_\_

- A)  $(9, 36)$
- B) no solution
- C)  $(36, 9)$
- D) infinite number of solutions

96) 
$$\begin{cases} \frac{1}{7}x - 2y = 1 \\ x - 14y = 7 \end{cases}$$

A) infinite number of solutions  
 B) no solution  
 C)  $(1, -7)$   
 D)  $(7, -1)$

96) \_\_\_\_\_

**Write the number in scientific notation.**

97) 44,000,000

A)  $4.4 \times 10^6$   
 B)  $4.4 \times 10^{-6}$   
 C)  $4.4 \times 10^{-7}$   
 D)  $4.4 \times 10^7$

97) \_\_\_\_\_

98) 0.000902

A)  $9.02 \times 10^{-3}$   
 B)  $9.02 \times 10^{-4}$   
 C)  $9.02 \times 10^{-5}$   
 D)  $9.02 \times 10^4$

98) \_\_\_\_\_

99) 0.000008739

A)  $8.739 \times 10^{-6}$   
 B)  $8.739 \times 10^{-5}$   
 C)  $8.739 \times 10^6$   
 D)  $8.739 \times 10^{-7}$

99) \_\_\_\_\_

100) 71,000

A)  $7.1 \times 10^{-4}$   
 B)  $7.1 \times 10^{-5}$   
 C)  $7.1 \times 10^5$   
 D)  $7.1 \times 10^4$

100) \_\_\_\_\_

## Answer Key

### Testname: 12B FINAL EXAM PRACTICE

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

## Answer Key

### Testname: 12B FINAL EXAM PRACTICE

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