HW 1 Date: _____ Name_____

Use Scantron 882E to transfer the answers.

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

Solve the equation.

1) $(y - 7) - (y + 7) = 9y$ 1) _____

A) $\left\{-\frac{14}{9}\right\}$ B) $\left\{-\frac{2}{9}\right\}$ C) $\left\{-\frac{14}{5}\right\}$ D) $\{-2\}$

2) $3m + 7 + 5(2m - 3) = 3(m + 3)$ 2) _____

A) $\left\{\frac{17}{16}\right\}$ B) $\left\{\frac{1}{10}\right\}$ C) $\left\{\frac{17}{10}\right\}$ D) $\left\{\frac{31}{10}\right\}$

3) $-[8x + (2x + 7)] = 1 - (9x + 3)$ 3) _____

A) $\{-5\}$ B) $\{-1\}$ C) $\{3\}$ D) $\left\{\frac{5}{3}\right\}$

4) $\frac{f}{4} - 5 = 1$ 4) _____

A) {16} B) {–24} C) {24} D) {–16}

5) $\frac{2x}{5} - \frac{x}{3} = 4$ 5) _____

A) {120} B) {–60} C) {–120} D) {60}

6) $\frac{r + 6}{3} = \frac{r + 8}{6}$ 6) _____

A) {3} B) {4} C) {–12} D) {–4}

7) $\frac{3x + 8}{5} + \frac{7}{5} = -\frac{7x}{4}$ 7) _____

A) $\left\{-\frac{4}{47}\right\}$ B) $\left\{\frac{4}{47}\right\}$ C) $\left\{\frac{60}{23}\right\}$ D) $\left\{-\frac{60}{47}\right\}$

8) $0.01x + 0.1(x + 20{,}000) = 2220$ 8) _____

A) {200,000} B) {2000} C) {200} D) {20,000}

Solve the equation for the specified variable. Use the distributive property to factor as necessary.

9) $-8k + ar = r - 8y$ for r 9) _____

A) $r = \frac{-8k + a}{1 - 8y}$ or $r = \frac{8k - a}{8y - 1}$ B) $r = \frac{a - 1}{8k - 8y}$ or $r = \frac{1 - a}{-8k + 8y}$

C) $r = \frac{8k - 8y}{a - 1}$ or $r = \frac{-8k + 8y}{1 - a}$ D) $r = \frac{-8k + 8y}{a - 1}$ or $r = \frac{8k - 8y}{1 - a}$

Solve the equation for y.

10) $-5x + 7y = 3$ 10) _____

A) $y = \frac{-3 - 5x}{7}$ B) $y = \frac{3 + 5x}{7}$ C) $y = 35x + 21$ D) $y = \frac{3 - 5x}{7}$

Use the variable x for the unknown, and write an equation representing the verbal sentence. Then solve the problem.

11) Four times a number added to 7 times the number equals 33. 11) _____

A) $4(x + 7) = 33x; -3$ B) $4x(7 + x) = 33; -3$

C) $7x + 4x = 33; 3$ D) $7x - 4x = 33; 3$

12) If 3 times a number is added to −10, the result is equal to 13 times the number. 12) _____

A) $3x - (-10) = 13x; 1$ B) $3x + 10x = 13; 1$

C) $13(3x - 10) = -10; -1$ D) $3x + (-10) = 13x; -1$

13) Four times a number added to 7 times the number equals 44. 13) _____

A) $4(x + 7) = 44x; -4$ B) $7x + 4x = 44; 4$

C) $4x(7 + x) = 44; -4$ D) $7x - 4x = 44; 4$

14) If 4 times a number is added to −5, the result is equal to 9 times the number. 14) _____

A) $4x + (-5) = 9x; -1$ B) $9(4x - 5) = -5; -1$

C) $4x - (-5) = 9x; 1$ D) $4x + 5x = 9; 1$

15) When $\frac{1}{4}$ of a number is added to 12, the result is 36. 15) _____

A) $\frac{1}{4}x - 12 = 36; 192$ B) $\frac{1}{4} + x = 36; 36$

C) $12 + \frac{1}{4}x = 36; 96$ D) $36 + \frac{1}{4}x = 12; 96$

Solve the problem.

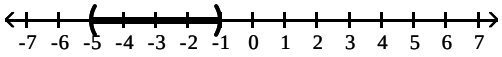
16) A rectangular Persian carpet has a perimeter of 204 inches. The length of the carpet is 30 in. more than the width. What are the dimensions of the carpet? 16) _____

A) Width: 87 in.; length: 117 in. B) Width: 66 in.; length: 96 in.

C) Width: 72 in.; length: 102 in. D) Width: 36 in.; length: 66 in.

Write an inequality statement involving the letter x that describes the given graph or interval notation.

17) 17) _____



A) $-5 \le x < -1$ B) $-5 \le x \le -1$ C) $-5 < x < -1$ D) $-5 < x \le -1$

Solve the problem.

18) A car rental company has two rental rates. Rate 1 is $30 per day plus $.12 per mile. Rate 2 is $60 per day plus $.06 per mile. If you plan to rent for one day, how many miles would you need to drive to pay less by taking Rate 2? 18) _____

A) more than 500 miles B) more than 1000 miles

C) more than 600 miles D) more than 250 miles

19) Correct Computers, Inc. finds that the cost to make x laptop computers is $C = 2253x + 109{,}453$, while the revenue produced from them is $R = 4042x$ (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? 19) _____

A) 195,811,417 B) 689,006,635 C) 62 D) 18

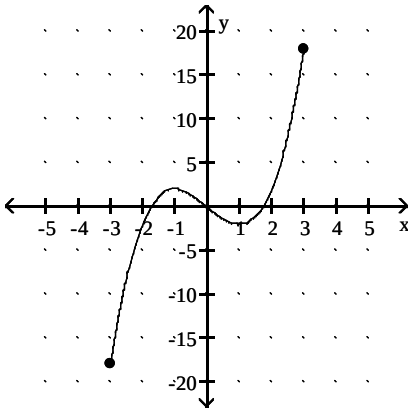
Solve the equation.

20) $|6m + 5| = 6$ 20) _____

A) $\left\{\frac{1}{5}, -\frac{11}{5}\right\}$ B) $\left\{-\frac{1}{6}, \frac{11}{6}\right\}$ C) $\varnothing$ D) $\left\{\frac{1}{6}, -\frac{11}{6}\right\}$

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

21) Find the domain. 21) _____



A) [–3, 3] B) all real numbers

C) [–5, 5] D) [–18, 18]

Find the domain.

22) $f(x) = \frac{-1}{-6 - x}$ 22) _____

A) {x| x is a real number and $x \neq -6$} B) {x| x is a real number and $x \neq 1$}

C) {x| x is a real number and $x \neq 6$} D) {x| x is a real number and $x \neq -1$}

Determine the slope and the y–intercept.

23) $2x - 6y = -12$ 23) _____

A) Slope $\frac{1}{3}$, y–intercept (0, 2) B) Slope 3, y–intercept (0, –2)

C) Slope $-\frac{1}{3}$, y–intercept (0, –2) D) Slope –3, y–intercept (0, 2)

24) $14y + 3x + 8 = 2 + 3x$ 24) _____

A) Slope 0, y–intercept $(0, \frac{3}{7})$ B) Slope $-\frac{3}{14}$, y–intercept $(0, -\frac{9}{7})$

C) Slope $\frac{3}{14}$, y–intercept $(0, -\frac{3}{7})$ D) Slope 0, y–intercept $(0, -\frac{3}{7})$

Find the slope of the line containing the two given points.

25) (–4, –5) and (9, 3) 25) _____

A) $-\frac{2}{5}$ B) $-\frac{8}{13}$ C) $\frac{8}{13}$ D) $\frac{13}{8}$

26) (–3.3, –12.4) and (4.4, 0.5) 26) _____

A) $-\frac{129}{77}$ B) $\frac{129}{77}$ C) $-\frac{77}{129}$ D) $\frac{77}{129}$

If possible, determine the slope.

27) $x = -3$ 27) _____

A) $-\frac{1}{3}$ B) Not defined C) -3 D) 0

28) $y = \frac{2}{3}$ 28) _____

A) $\frac{3}{2}$ B) $\frac{2}{3}$ C) Not defined D) 0

29) $2 \cdot f(x) + 8 = 0$ 29) _____

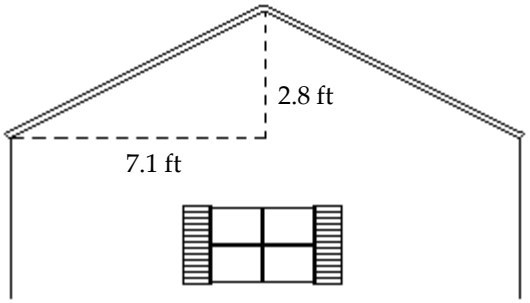
A) $-\frac{1}{4}$ B) Not defined C) -4 D) 0

30) $4 - 5x = 5 - 2x$ 30) _____

A) $-\frac{1}{3}$ B) 0 C) Not defined D) $\frac{1}{3}$

Find the slope (or rate of change). Use appropriate units.

31) Find the slope (or pitch) of the roof. 31) _____



A) 2.54% B) 253.6% C) 0.39% D) 39.4%

Tell whether the lines are "parallel", "perpendicular", or "neither."

32) $3x - 8y = 15$ 32) _____
$32x + 12y = 15$

A) Parallel B) Perpendicular C) Neither

33) $6x + 2y = 8$ 33) _____
$24x + 8y = 33$

A) Neither B) Parallel C) Perpendicular

Find a linear function whose graph has the given slope and y –intercept.

34) Slope $\frac{1}{3}$, y–intercept (0, 2) 34) _____

A) $f(x) = \frac{1}{3}x + 2$ B) $f(x) = -\frac{1}{3}x - 2$ C) $f(x) = -\frac{1}{3}x + 2$ D) $f(x) = \frac{1}{3}x - 2$

Find an equation of the line having the specified slope and containing the indicated point. Write your answer in slope–intercept form.

35) m = –8; (6, –3) 35) _____

A) $y = -8x + 45$ B) $y = -8x + 46$ C) $y = -8x + 43$ D) $y = 8x + 44$

36) m = 5; (0, –5) 36) _____

A) $y = 5x + 5$ B) $y = 5x + 7$ C) $y = 5x - 5$ D) $y = -5x - 3$

37) m = $-\frac{3}{5}$; (10, –2) 37) _____

A) $y = -\frac{3}{5}x + 4$ B) $y = \frac{3}{5}x - 4$ C) $y = -\frac{3}{5}x + \frac{28}{5}$ D) $y = -\frac{3}{5}x + 8$

38) m = –9; (0, 6.9) 38) _____

A) $y = -9x + 6.9$ B) $y = 6.9x + 9$ C) $y = 6.9x - 9$ D) $y = -9x - 6.9$

Find an equation of the line containing the given pair of points

39) (4, 5) and (5, 9) 39) _____

A) $y = -11x + 4$ B) $y = 4x - 11$ C) $y = -4x - 11$ D) $y = -11x - 4$

40) (6, –6) and (–7, 7) 40) _____

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

41) (0, 0) and (3, –2) 41) _____

A) $y = -\frac{3}{2}x$ B) $y = -\frac{2}{3}x - 2$ C) $y = \frac{2}{3}x$ D) $y = -\frac{2}{3}x$

42) (2, –3) and (–5, 5) 42) _____

A) $y = \frac{5}{7}x - \frac{5}{7}$ B) $y = \frac{8}{7}x - \frac{5}{7}$ C) $y = -\frac{8}{7}x - \frac{5}{7}$ D) $y = -\frac{5}{7}x - \frac{5}{7}$

Find an equation of the line having the specified slope and containing the indicated point. Write your answer in slope–intercept form.

43) m = –4; (0, 1.1) 43) _____

A) $y = 1.1x - 4$ B) $y = -4x - 1.1$ C) $y = 1.1x + 4$ D) $y = -4x + 1.1$

Find an equation of the line containing the given pair of points

44) (–4, –3) and (–3, –1) 44) _____

A) $y = -2x + 5$ B) $y = 2x + 5$ C) $y = 5x - 2$ D) $y = 5x + 2$

45) (9, –9) and (–7, 7) 45) _____

A) $y = -x$ B) $y = -\frac{7}{9}x$ C) $y = -x - 9$ D) $y = x$

46) (0, 0) and (7, –8) 46) _____

A) $y = \frac{8}{7}x$ B) $y = -\frac{8}{7}x - 8$ C) $y = -\frac{7}{8}x$ D) $y = -\frac{8}{7}x$

47) (2, –2) and (9, 6) 47) _____

A) $y = \frac{8}{7}x - \frac{30}{7}$ B) $y = \frac{4}{7}x - \frac{30}{7}$ C) $y = -\frac{4}{7}x - \frac{30}{7}$ D) $y = -\frac{8}{7}x - \frac{30}{7}$

Write an equation of the line described.

48) Through (–5, –2), parallel to $3x + 5y = 5$ 48) _____

A) $y = -\frac{5}{3}x - \frac{2}{3}$ B) $y = -\frac{3}{5}x - 5$ C) $y = \frac{3}{5}x + 5$ D) $y = 1x + 1$

49) Through (–3, –8), perpendicular to $-8x + 7y = 80$ 49) _____

A) $y = \frac{7}{8}x - \frac{85}{8}$ B) $y = -\frac{3}{7}x - \frac{80}{7}$ C) $y = -\frac{8}{7}x - \frac{8}{7}$ D) $y = -\frac{7}{8}x - \frac{85}{8}$

Solve the problem.

50) A gas station sells 4820 gallons of regular unleaded gasoline on a day when they charge $1.35 per gallon, whereas they sell 3922 gallons on a day that they charge $1.40 per gallon. Find a linear function that expresses gallons sold as a function of price. 50) _____

A) G(p) = –17,960p + 29,044.2 B) G(p) = –17,960p + 29,082

C) G(p) = –17,960p + 29,066 D) G(p) = –17,960p + 29,049.8

51) A gas station sells 4820 gallons of regular unleaded gasoline in a day when they charge $1.35 per gallon, whereas they sell 3884 gallons on a day that they charge $1.40 per gallon. Find a linear function that expresses gallons sold as a function of price. Use this function to predict the number of gallons sold at a price of $1.24 per gallon. 51) _____

A) 6875.89982 gallons B) 6883.29982 gallons

C) 6888.19982 gallons D) 6879.19982 gallons

52) Persons taking a 30–hour review course to prepare for a standardized exam average a score of 620 on that exam. Persons taking a 70–hour review course average a score of 792. Find a linear function S(t), which fits this data, and which expresses score as a function of time. 52) _____

A) S(t) = –4.3t + 491 B) S(t) = 4.3t + 491

C) S(t) = 3.87t – 495 D) S(t) = 3.87t + 495

Find the product.

53) $2x(3x - 1)(6x + 8)$ 53) _____

A) $18x^3 + 18x^2 - 8x$ B) $36x^3 + 36x^2 - 16x$

C) $34x^2 + 37x - 16$ D) $32x^3 + 38x^2 - 14x$

54) $(-5y - 2)(-8y^2 - y + 4)$ 54) _____

A) $40y^3 + 21y^2 - 18y - 8$ B) $-3y^2 - 18y - 8$

C) $40y^3 - 18y - 8$ D) $40y^3 + 11y^2 - 18y - 8$

55) $(x + 5)(x^2 - x + 8)$ 55) _____

A) $x^3 + 6x^2 + 13x + 40$ B) $x^3 + 4x^2 + 40$

C) $x^3 + 40$ D) $x^3 + 4x^2 + 3x + 40$

Factor out the greatest common factor.

56) $5x^3 + 15x$ 56) _____

A) $5x(x^2 + 3x)$ B) $5x^2(x + 3)$ C) $5x(x^2 + 3)$ D) $5x(x^2 + 10x)$

57) $2x(5x - 2) + 3(5x - 2)$ 57) _____

A) $(2x - 3)(5x + 2)$ B) $(2x + 3)(5x - 2)$ C) $(10x - 3)(x + 2)$ D) $(10x + 3)(x - 2)$

Factor the polynomial using a common factor with a negative coefficient.

58) $-2x^9 + 4x^5 - 18x^3$ 58) _____

A) $-2x^3(x^6 + 2x^2 + 9)$ B) $-2x^3(x^6 + 2x^2 - 9)$

C) $-2x^3(x^6 - 2x^2 + 9)$ D) $-x^3(x^6 - 4x^2 + 18)$

59) $-3x^2 - 24x^5 + 12x^7$ 59) _____

A) $-3x^2(1 - 8x^3 - 4x^5)$ B) $-3x^2(1 - 8x^3 + 4x^5)$

C) $-3x^2(1 + 8x^3 - 4x^5)$ D) $-x^2(3 + 24x^3 - 12x^5)$

Factor the trinomial completely.

60) $-p^2 + 10p - 16$ 60) _____

A) $-(p - 8)(p + 2)$ B) $-(p - 8)(p - 2)$ C) $-(p + 8)(p + 2)$ D) Prime

61) $-x^2 - 8x + 20$ 61) _____

A) $-(x - 10)(x + 2)$ B) $-(x + 10)(x - 2)$ C) $-(x - 10)(x + 1)$ D) Prime

62) $k^2 - 16k + 63$ 62) _____

A) $(k - 9)(k - 7)$ B) $(k - 9)(k + 7)$ C) $(k + 9)(k - 7)$ D) $(k + 9)(k + 7)$

63) $-p^2 + 13p - 42$ 63) _____

A) $-(p - 6)(p + 7)$ B) $-(p + 6)(p + 7)$ C) $-(p - 6)(p - 7)$ D) Prime

64) $-x^2 - 3x + 88$ 64) _____

A) $-(x - 11)(x + 1)$ B) $-(x + 11)(x - 8)$ C) $-(x - 11)(x + 8)$ D) Prime

65) $16x^2 + 24x + 9$ 65) _____

A) $(4x + 3)(4x + 3)$ B) $(16x + 1)(x + 9)$ C) $(16x + 3)(x + 3)$ D) $(4x - 3)(4x - 3)$

66) $6y^2 + 13y + 6$ 66) _____

A) $(2y - 3)(3y - 2)$ B) $(6y + 1)(y - 6)$ C) $(6y + 3)(y + 2)$ D) $(2y + 3)(3y + 2)$

67) $20k^2 - 33k + 10$ 67) _____

A) $(4k - 5)(5k + 2)$ B) $(4k + 5)(5k + 2)$ C) $(4k - 5)(5k - 2)$ D) Prime

Factor the polynomial completely.

68) $81x^2 - 4$ 68) _____

A) $(9x - 2)^2$ B) $(9x + 2)^2$ C) $(81x + 1)(x - 4)$ D) $(9x + 2)(9x - 2)$

69) $144k^2 - 25m^2$ 69) _____

A) $(12k + 5m)(12k - 5m)$ B) $(12k - 5m)^2$

C) $(144k + m)(k - 25m)$ D) $(12k + 5m)^2$

Find all solutions by factoring.

70) $m^2 - 7m + 10 = 0$ 70) _____

A) {5, –2} B) {–5, 2} C) {–5, –2} D) {5, 2}

71) $x^2 + 8x + 12 = 0$ 71) _____

A) {–2, 6} B) {2, 6} C) {2, –6} D) {–2, –6}

72) $x^2 + 10x - 24 = 0$ 72) _____

A) {–12, 2} B) {12, 2} C) {12, –2} D) {–12, 1}

73) $2x^2 + 15x = -25$ 73) _____

A) {–5, –10} B) $\left\{5, \frac{5}{2}\right\}$ C) $\left\{-\frac{5}{2}, -5\right\}$ D) $\left\{5, -\frac{5}{2}\right\}$

74) $25x^2 + 40x = -16$ 74) _____

A) $\left\{\frac{5}{4}\right\}$ B) $\left\{-\frac{4}{5}\right\}$ C) $\left\{-\frac{5}{4}\right\}$ D) $\left\{\frac{4}{5}\right\}$

Write with radicals. Assume that all variables represent positive real numbers.

75) $x^{1/7}$ 75) _____

A) x^{-7} B) $\sqrt[7]{x}$ C) $\sqrt{x^7}$ D) $\frac{1}{\sqrt[7]{x}}$

76) $m^{8/3}$ 76) _____

A) $\left(\sqrt[3]{m}\right)^8$ B) $\left(\sqrt[8]{m}\right)^3$ C) $\frac{1}{\sqrt[8]{m}}$ D) $\sqrt[8]{m^3}$

77) $(x^2y^2)^{1/7}$ 77) _____

A) $x^{14}y^{14}$ B) $\left(\sqrt[2]{xy}\right)^7$ C) $\frac{1}{\left(\sqrt[7]{xy}\right)^2}$ D) $\left(\sqrt[7]{xy}\right)^2$

78) $7k^{-2/3}$ 78) _____

A) $\sqrt[3]{7k^2}$ B) $\sqrt[2]{7k^3}$ C) $\frac{7}{\sqrt[3]{k}}$ D) $\frac{7}{\left(\sqrt[3]{k}\right)^2}$

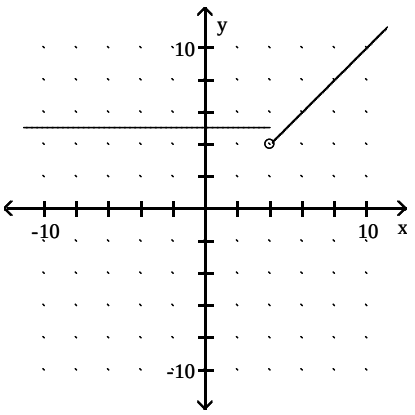
79) $2k^{4/5}$ 79) _____

A) $2\left(\sqrt[5]{k}\right)^4$ B) $\left(\sqrt[4]{k}\right)^5$ C) $\left(\sqrt[5]{2k}\right)^4$ D) $2\left(\sqrt[4]{k}\right)^5$

Graph the function.

80) $f(x) = \begin{cases} 5, & \text{for } x \le 4, \\ x+1, & \text{for } x > 4 \end{cases}$ 80) _____

A)



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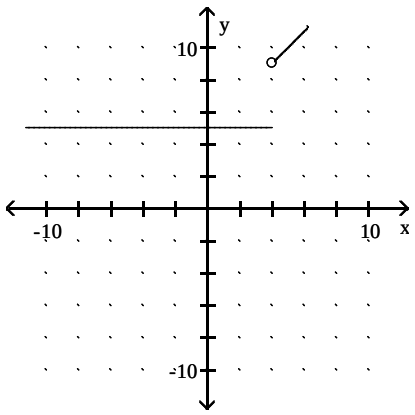

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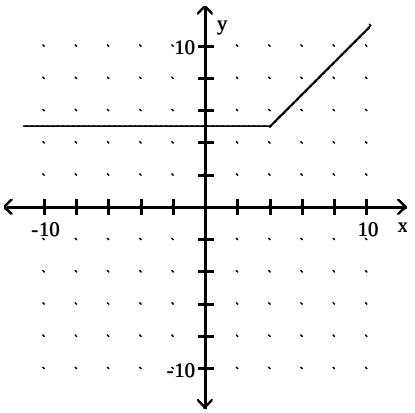
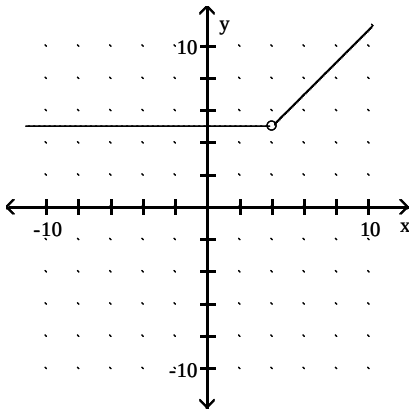


D)



Use the rules of exponents to simplify the expression. Write the answer with positive exponents. Assume that all variables represent positive real numbers.

81) $x^{1/4} \cdot x^{3/4}$ 81) _____

A) $x^{3/16}$ B) $\frac{1}{x}$ C) $x^{3/4}$ D) x

82) $\frac{y^{9/8}}{y^{5/8}}$ 82) _____

A) $\frac{1}{y}$ B) $y^{1/2}$ C) $y^{9/8}$ D) y

83) $(b^5)^{7/5}$ 83) _____

A) $b^{7/25}$ B) b^7 C) $b^{12/5}$ D) $b^{1/5}$

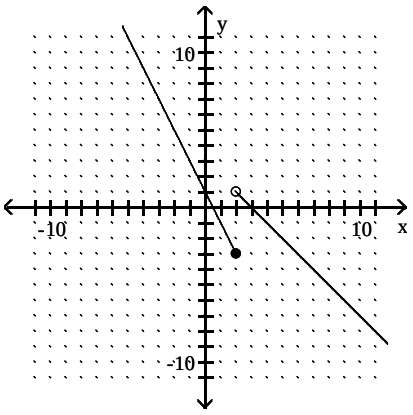
84) $z^{-2/5} \cdot z^{3/5}$ 84) _____

A) $z^{6/5}$ B) $z^{-1/5}$ C) $z^{1/5}$ D) $z^{5/6}$

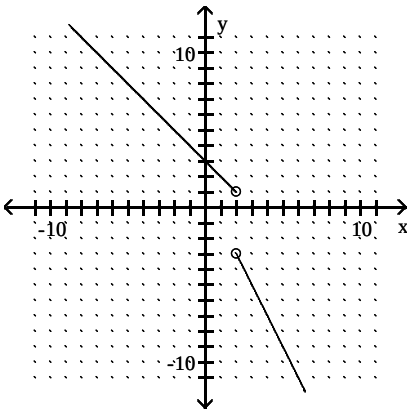
Graph the function.

85) $f(x) = \begin{cases} 3 - x, & \text{for } x \le 2, \\ 1 - 2x, & \text{for } x > 2 \end{cases}$ 85) _____

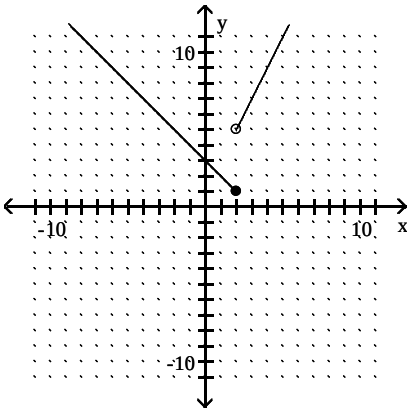
A)



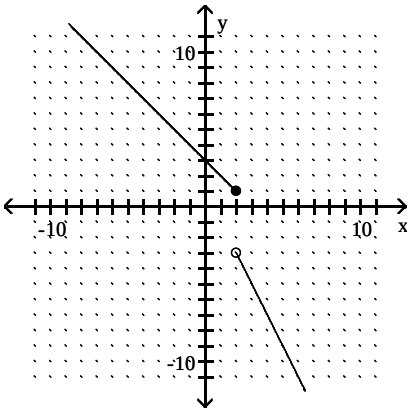
B)



C)

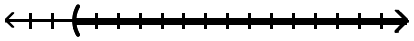


D)



Write the interval notation for the graph.

86) 86) _____



r

A) (–r, ∞) B) (–r, r) C) [r, ∞) D) (r, ∞)

Evaluate the function.

87) Given $f(x) = 3x^2 - 2x + 1$, find $f(k - 1)$. 87) _____

A) $-8k^2 + 3k + 6$ B) $3k^2 - 8k + 6$ C) $3k^2 + 1k + 2$ D) $3k^2 - 8k + 2$

88) Given $f(x) = \dfrac{4x}{3x - 4}$, find $f(-3)$. 88) _____

A) – 4 B) 3 C) $\dfrac{12}{13}$ D) $\dfrac{4}{3}$

89) For $f(x) = x^2 + 5x$, find $\dfrac{f(x + h) - f(x)}{h}$. 89) _____

A) x B) 2xh + h + 5h C) 2x + h + 5 D) 2x + h – 5

90) For $f(x) = \begin{cases} 3x + 2, & \text{for } x < 2 \\ 11, & \text{for } x = 2 \\ x^2 + 4, & \text{for } x > 2 \end{cases}$, find f(–1) and f(6). 90) _____

A) f(–1) = –5, f(6) = 40 B) f(–1) = 5, f(6) = 20
C) f(–1) = –1, f(6) = 40 D) f(–1) = –1, f(6) = 16

91) For $f(x) = \begin{cases} -5x - 1, & \text{for } x < 0 \\ 14, & \text{for } 0 \le x \le 3 \\ \frac{1}{3}x + 3, & \text{for } x > 3 \end{cases}$, find f(0) and f(12). 91) _____

A) f(0) = –1, f(12) = 7 B) f(0) = 14, f(12) = 9
C) f(0) = 14, f(12) = 7 D) f(0) = –1, f(12) = 9

Compute and simplify the difference quotient $\frac{f(x+h) - f(x)}{h}$, $h \neq 0$.

92) $f(x) = 5x^2 + 7x$ 92) _____

A) $10x^2 + 5h + 7x$ B) $10x + 5h + 7$ C) $15x - 7h + 14$ D) $10x + 7$

Find the function value.

93) Given that $f(x) = 5x^2 - 2x$, find f(t + 2). 93) _____

A) $t^2 + 2t - 6$ B) $3t + 6$ C) $5t^2 - 18t + 16$ D) $5t^2 + 18t + 16$

Solve the problem.

94) Find f(k – 1) when $f(x) = 2x^2 - 4x - 4$. 94) _____

A) $-8k^2 + 2k + 2$ B) $2k^2 - 8k - 6$ C) $2k^2 - 8k + 2$ D) $2k^2 - 12k - 6$

95) Find f(k) when $f(x) = 3x^2 + 4x + 5$. 95) _____

A) $9k^2 + 16k + 25$ B) $3k^2 + 4k + 5$ C) $3k^2 + 16k + 5$ D) $3k^2 + 4k + 25$

96) Find g(a + 1) when $g(x) = \frac{1}{4}x + 5$. 96) _____

A) $\frac{a - 21}{4}$ B) $\frac{1}{4}a + 5$ C) $\frac{a + 21}{4}$ D) $\frac{1}{4}a - 4$

97) Find g(a + 1) when g(x) = 3x + 2. 97) _____

A) 3a – 1 B) $\frac{1}{3}a + 2$ C) 3a + 2 D) 3a + 5

Evaluate the function.

98) Find f(0) if f = {(–2, 3), (3, 0), (0, 5), (5, –2)} 98) _____

A) (5, 3) B) None of these C) 5 D) 3

Solve the problem.

99) Find $f(\frac{1}{3})$ if $f(x) = -5x^2 + 5x + 7$. 99) _____

A) $\frac{73}{9}$ B) $-\frac{7}{9}$ C) $-\frac{73}{9}$ D) $\frac{7}{9}$