



INTRODUCTION TO ALGEBRA 2

Summer Assignments (for Simpson and Tavel)



WRITE ANSWERS ON PAPER AND BUBBLE LETTER CHOICES ON ANSWER SHEET

NAME

Introduction to Algebra II Summer Assignment

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Evaluate the expression.

- $1 + 3(-3)^2(5) + 9$
 - 145
 - 415
 - 189
 - 379
- Evaluate the following expression if $a = 10$, $b = 3$, and $c = 4$.
 $3c + bc - 2a$
 - 64
 - 31
 - 72
 - 4

Evaluate the expression. Show each step.

- $5 + 3(29 - 5^2) + 4$
 - $5 + 3(29 - 5^2) + 4$
 $= 5 + 3(29 - 25) + 4$
 $= 5 + 3(4) + 4$
 $= 5 + 12 + 4$
 $= 21$
 - $5 + 3(29 - 5^2) + 4$
 $= 5 + 3(29 - 25) + 4$
 $= 5 + 3(4) + 4$
 $= 8(8)$
 $= 64$
 - $5 + 3(29 - 5^2) + 4$
 $= 5 + 3(24) + 4$
 $= 5 + 72 + 4$
 $= 81$
 - $5 + 3(29 - 5^2) + 4$
 $= 8(29 - 25) + 4$
 $= 8(4) + 4$
 $= 32 + 4$
 $= 36$

Simplify the expression. If not possible, write simplified.

- $3(5a + 3)$
 - $15a + 9a$
 - $15a + 9$
 - $15a + 3$
 - simplified

Translate the equation into a verbal sentence.

- $5 + 2(v - 3) = w + 4$
 - Five less than the product of two and v minus three is equal to w divided by four.
 - Five more than the product of two and v plus three is equal to w divided by four.
 - Five more than the product of two and v minus three is equal to w divided by four.
 - Five more than the sum of two and v minus three is equal to the quotient of w and four.

Solve the equation. Then check your solution.

- $119 = n - 66$
 - 53
 - 186
 - 185
 - 185

7. $\frac{v}{7} = 3$
 a. -21
 b. 21
 c. -4
 d. 10
8. $\frac{x}{90} = \frac{7}{9}$
 a. 35
 b. 70
 c. 140
 d. 116
9. $5p = 140$
 a. 28
 b. 700
 c. -28
 d. 26
10. $2x + 7 = 79$
 a. 36
 b. 43
 c. $32\frac{1}{2}$
 d. -36
11. $\sqrt{7s - 20} = 6$
 a. $\frac{26}{7}$
 b. $\frac{16}{7}$
 c. 8
 d. -2

Solve the equation. Then check your solution.

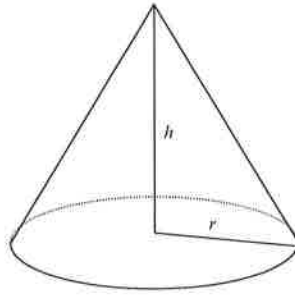
12. $-7m + 20 = -17m - 10$
 a. -3
 b. 3
 c. 1
 d. $1\frac{1}{4}$
13. $15(-42x + 40) = 15(-8x + 244)$
 a. -6
 b. 0.7
 c. 6
 d. 3

Solve the equation or formula for the variable specified.

14. $df + 10h = 3$ for d
 a. $d = \frac{3 - 10h}{f}$
 b. $d = 3 - 10h$
 c. $d = \frac{3 + 10h}{f}$
 d. $d = f(3 - 10h)$

Right Circular Cone

$$V = \frac{\pi r^2 h}{3}$$

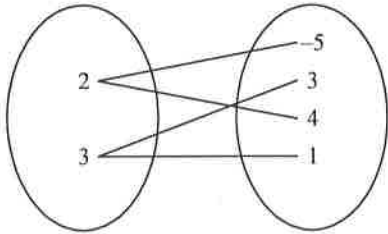
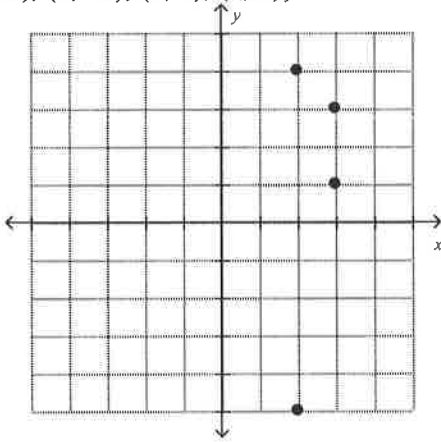


15. What is the radius of a right circular cone with a volume of 800 cubic inches and a height of 12 inches. Round your answer to the nearest hundredth.
- a. 7.98 inches
 - b. 8 inches
 - c. 7.98 square inches
 - d. 14.14 inches

Express each relation as a graph and a mapping. Then determine the domain and range.

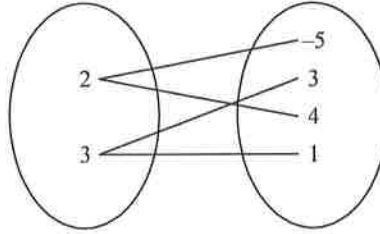
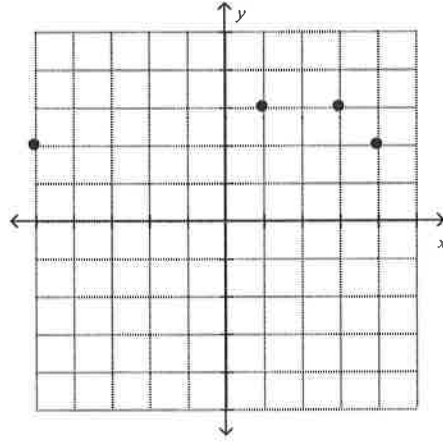
16. $\{(3, 1), (2, -5), (2, 4), (3, 3)\}$

a.



$$D = \{2, 3\}; R = \{-5, 1, 3, 4\}$$

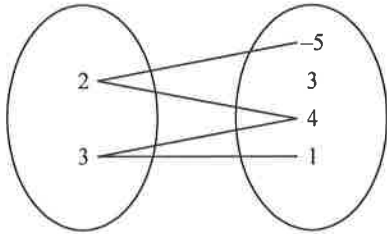
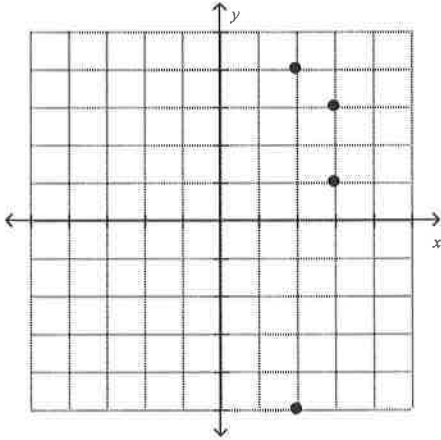
c.



$$D = \{2, 3\}; R = \{-5, 1, 3, 4\}$$

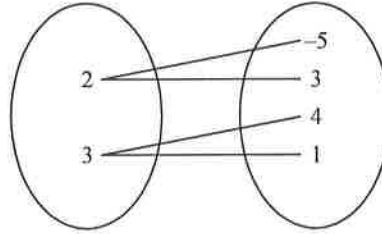
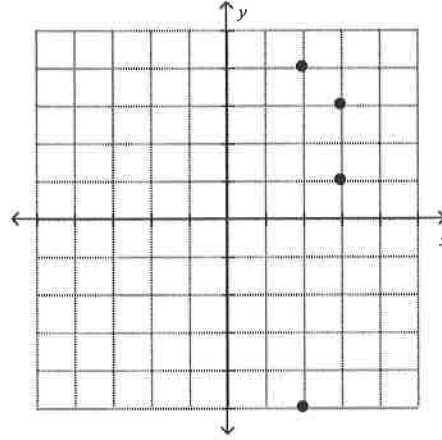
Choices for b and d are on the next page.

b.



$$D = \{2, 3\}; R = \{-5, 1, 3, 4\}$$

d.



$$D = \{2, 3\}; R = \{-5, 1, 3, 4\}$$

17. If $g(x) = x^2 + 4x - 5$, find $g(-4)$.

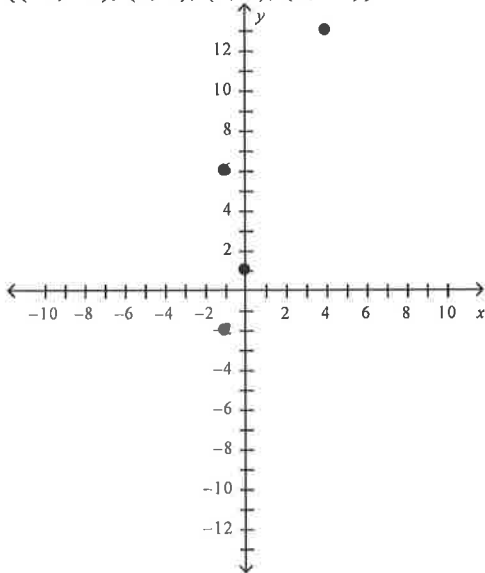
- a. -85
- b. 27

- c. 5
- d. -5

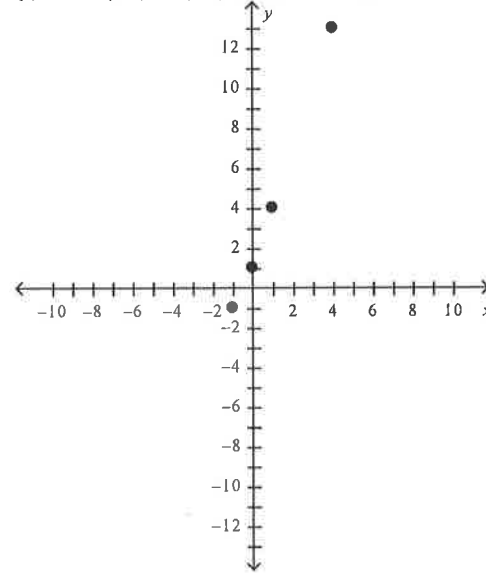
Solve the equation for the given domain. Graph the solution set.

18. $3x - y = -1$ for $x = \{-1, 0, 1, 4\}$

- a. $\{(-1, -2), (0, 1), (1, 4), (4, 13)\}$

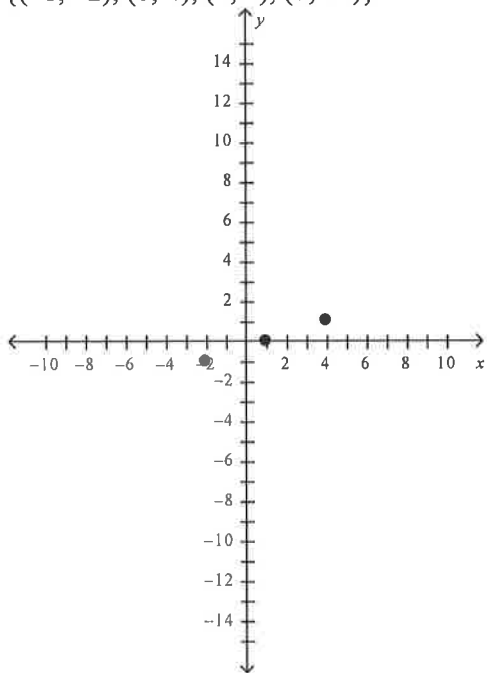


- c. $\{(-1, -1), (0, 1), (1, 4), (4, 13)\}$

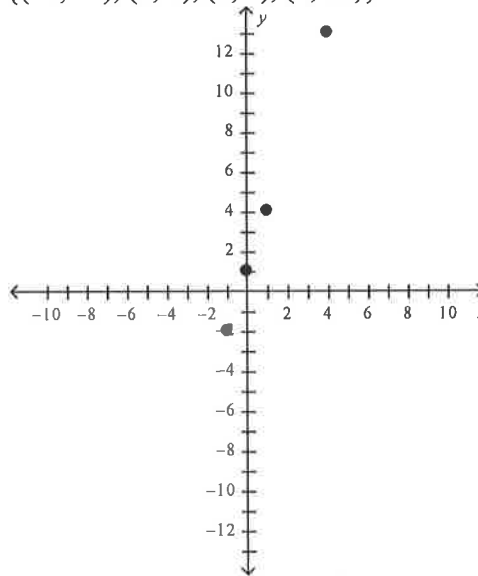


Choices for b and d are on the next page.

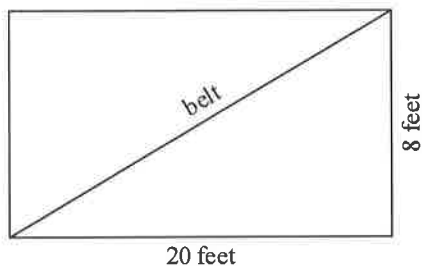
b. $\{(-1, -2), (0, 1), (1, 4), (7, 15)\}$



d. $\{(-1, -2), (0, 1), (1, 4), (4, 13)\}$



19. A conveyor belt runs between floors of a building as pictured below. Find the slope of the belt as a positive number.



- a. undefined
 b. $\frac{5}{2}$
 c. $\frac{2}{5}$
 d. 0

Find the slope of the line that passes through the pair of points.

20. $(2, -3), (-5, 1)$
 a. $-\frac{4}{7}$
 b. undefined
 c. $-\frac{2}{3}$
 d. $\frac{3}{7}$

Write an equation of the line with the given slope and y-intercept

21. slope: $\frac{2}{7}$, y-intercept: -3
 a. $y = -\frac{2}{7}x - 3$
 b. $y = \frac{7}{2}x - 3$
 c. $y = \frac{2}{7}x + 3$
 d. $y = \frac{2}{7}x - 3$

Write an equation of the line that passes through each point with the given slope.

22. $(-3, -4), m = 3$

a. $y = 3x + 13$

b. $y = 3x - 5$

c. $y = -3x + 5$

d. $y = 3x + 5$

Write an equation of the line that passes through the pair of points.

23. $(-5, -2), (3, -1)$

a. $y = \frac{1}{8}x + \frac{11}{8}$

b. $y = \frac{1}{8}x - \frac{11}{8}$

c. $y = -\frac{1}{8}x - \frac{11}{8}$

d. $y = \frac{1}{8}x + \frac{8}{11}$

Write the point-slope form of an equation for a line that passes through the point with the given slope.

24. $(-4, 3), m = 1$

a. $y - 3 = 1(x + 4)$

b. $y + 3 = 1(x + 4)$

c. $y - 3 = 1(x - 4)$

d. $y - 3 = -(x + 4)$

Write the equation in slope-intercept form.

25. $y + 3 = 3(x - 1)$

a. $y = -3x - 6$

b. $y = 3x - 6$

c. $y = 3x + 4$

d. $y = 3x + 6$

Write the slope-intercept form of an equation of the line that passes through the given point and is parallel to the graph of the equation.

26. $(5, -1), y = -\frac{3}{4}x + 1$

a. $y = \frac{11}{4}x + \frac{3}{4}$

b. $y = \frac{4}{3}x + \frac{11}{5}$

c. $y = -\frac{3}{4}x + \frac{11}{4}$

d. $y = -\frac{3}{4}x - \frac{11}{4}$

Write the slope-intercept form of an equation that passes through the given point and is perpendicular to the graph of the equation.

27. $(4, 4), 2x - y = 4$

a. $y = 2x + 2$

b. $y = -\frac{1}{2}x + 6$

c. $y = \frac{1}{2}x + 6$

d. $y = 4x + 2$

34. $5(2g - 3) - 6g \geq -2(g - 6) + 3$

- a. \mathbb{R} (all real numbers)
 b. $g \geq 1$

- c. $g \geq 5$
 d. \emptyset (the empty set)

Solve the compound inequality and graph the solution set.

35. $u + 8 \geq 1$ and $u - 3 < 3$

- a. $-7 \leq u < 6$



- b. $0 \leq u < 9$



- c. $-7 \leq u < 6$



- d. $0 \leq u < 9$

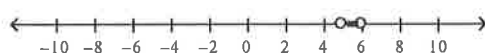


36. $g - 6 > -1$ or $g + 2 > 8$

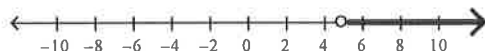
- a. $g < 5$



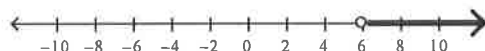
- b. $5 < g < 6$



- c. $g > 5$



- d. $g > 6$



37. Solve $|-2n - 1| = 7$.

- a. $n = -4$
 b. $n = -4$ or $n = -3$

- c. $n = -4$ or $n = 3$
 d. no solution

38. Solve $|d + 1| > 8$.

- a. $d < -9$
 b. $d > 7$

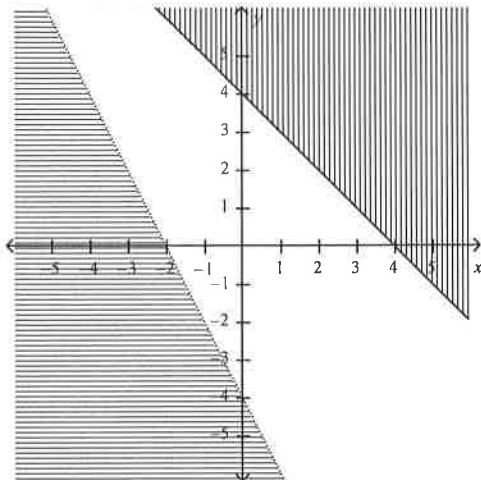
- c. $-9 < d < 7$
 d. $d < -9$ or $d > 7$

Solve the system of inequalities by graphing.

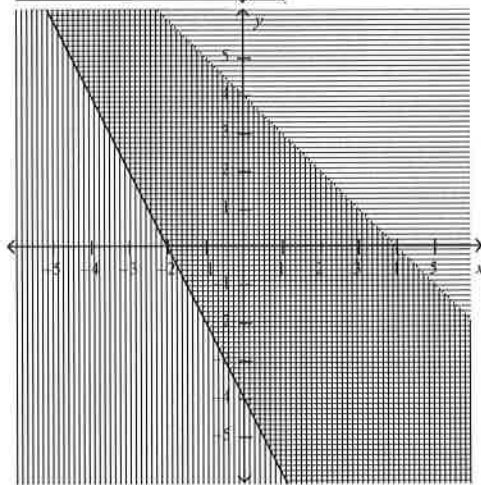
39. $y \leq -x + 4$

$y > -2x - 4$

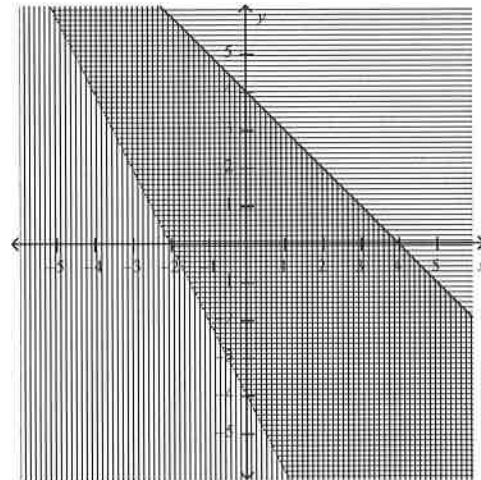
a.



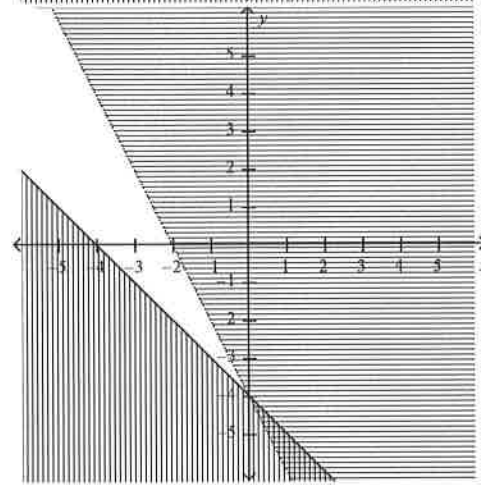
b.



c.



d.



Simplify. Assume that no denominator is equal to zero.

40. $(a^5 b^5)(a^5 b^3)$

a. $a^{25} b^{15}$

b. $a^{25} b^8$

c. $a^{10} b^{15}$

d. $a^{10} b^8$

41. $(4g^3 h^4)^3$

a. $12g^6 h^7$

b. $64g^9 h^{12}$

c. $64g^6 h^7$

d. $12g^9 h^{12}$

$$42. \frac{(2a^5b)^2}{24b^6}$$

a. $\frac{a^{10}b^4}{6}$

b. $\frac{a^{10}}{12b^4}$

c. $\frac{a^7}{6b^4}$

d. $\frac{a^{10}}{6b^4}$

$$43. \frac{36m^{-4}n^6}{4mn^{-2}p^{-4}}$$

a. $\frac{9n^4p^4}{m^3}$

b. $\frac{9n^8}{m^5p^4}$

c. $\frac{9n^8p^4}{m^5}$

d. $\frac{9m^5}{n^8p^4}$

Find the sum or difference.

$$44. (6a - 2b^2 - a) + (b - 3 + 9a^2)$$

a. $7a^2 + 5a + b - 3$

b. $9a^2 - 2b^2 + 6a + b - 3$

c. $9a^2 - 2b^2 + 5a + b - 3$

d. $9a^2 - 2b^2 + 5a + b + 3$

$$45. (5a - 3a^2) - (-6a - 6)$$

a. $3a^2 + 11a + 6$

b. $-3a^2 + 11a - 6$

c. $-3a^2 + 11a + 6$

d. $-3a^2 - 1a + 6$

Find the product.

$$46. -5r^3(4r^2 - 2r - 5)$$

a. $-20r^5 - 10r^4 - 25r^3$

b. $-20r^5 + 10r^4 + 25r^3$

c. $20r^5 - 10r^4 - 25r^3$

d. $-20r^6 + 10r^3 + 25r^3$

Solve the equation.

$$47. 3(4x + 4) = 2(5x + 9) - 12$$

a. -9

b. $-\frac{3}{11}$

c. $-\frac{7}{2}$

d. -3

$$48. 4x(-x-3) = 2(-2x^2-2) - 2$$

a. $\frac{1}{2}$

b. $\frac{4}{3}$

c. $\frac{2}{3}$

d. $\frac{3}{4}$

49. $q(q+4) = 0$

a. $\{0, -4\}$

b. $\{0, 4\}$

c. $\{1, -4\}$

d. $\{0\}$

50. $(r-3)(r+6) = 0$

a. $\{-3, 6\}$

b. $\{0, 18\}$

c. $\{3, -6\}$

d. $\{-3\}$

51. $(7p+14)(8-2p) = 0$

a. $\{2, 4\}$

b. $\{-2, 4\}$

c. $\{7, 6\}$

d. $\left\{\frac{22}{5}\right\}$

52. $4k^2 = 5k$

a. $\{0\}$

b. $\left\{0, -\frac{5}{4}\right\}$

c. $\left\{1, \frac{4}{5}\right\}$

d. $\left\{0, \frac{5}{4}\right\}$

53. $(12x-4)(3x+6) = 0$

a. $\left\{\frac{1}{3}, -2\right\}$

b. $\{3, -2\}$

c. $\left\{2, \frac{1}{3}\right\}$

d. $\left\{-\frac{1}{2}, \frac{1}{3}\right\}$

Find the product.

54. $(r-8)(r+5)$

a. $r^2 - 40$

b. $r^2 + 13r - 40$

c. $r - 3$

d. $r^2 - 3r - 40$

55. $(-6k+4)(-7k^2+2k-7)$

a. $-7k^2 - 4k - 3$

b. $42k^3 - 40k^2 + 50k - 28$

c. $-42k^3 - 40k^2 - 34k - 28$

d. $-7k^2 - 12k - 28$

56. $(b+7)^2$

a. $b^2 + 14b + 49$

b. $b^2 + 49$

c. $b^2 + 49b + 49$

d. $2b + 14$

57. $(4r - 9)^2$

a. $16r^2 - 72r + 81$

b. $16r^2 + 81$

c. $16r^2 - 72r - 81$

d. $16r^2 - 81r + 81$

Find the product of each sum and difference.

58. $(6c + 9)(6c - 9)$

a. $36c^2 - 81$

b. $36c^2 + 54c - 81$

c. $12c$

d. $36c^2 + 81$

Factor the monomial completely.

59. $63a^3b^3$

a. $3 \cdot 3 \cdot 7 \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b$

b. $3 \cdot 3 \cdot 7 \cdot a \cdot a \cdot a \cdot b \cdot b$

c. $3 \cdot 21 \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b$

d. $3 \cdot 3 \cdot 7 \cdot a \cdot a \cdot b \cdot b \cdot b$

Factor the polynomial.

60. $12g + 20h$

a. $4(3g + 5h)$

b. $3(4g + 5h)$

c. $4g(3 + 5h)$

d. $5(3g + 4h)$

Factor the trinomial.

61. $x^2 + 15x + 14$

a. $(x + 2)(x + 13)$

b. $(x + 7)(x + 2)$

c. $(x - 1)(x - 14)$

d. $(x + 1)(x + 14)$

Solve the trinomial equation.

62. $k^2 + 8k = 84$

a. $\{-12, 7\}$

b. $\{14, -6\}$

c. $\{-14, 6\}$

d. $\{-12, 4\}$

Factor the trinomial, if possible. If the trinomial cannot be factored using integers, write prime.

63. $3t^2 + 10t + 8$

a. $(3t + 6)(t + 4)$

b. $(3t - 4)(t - 2)$

c. *prime*

d. $(3t + 4)(t + 2)$

Solve the equation.

64. $12x^2 - 14x + 4 = 0$

a. $\left\{\frac{2}{3}, \frac{1}{2}\right\}$

b. $\left\{2, \frac{6}{2}\right\}$

c. $\{-6, -8\}$

d. $\{6, 8\}$

65. $8y^2 - 12y + 4 = y + 10$

a. $\{8, 2\}$

b. $\left\{-\frac{3}{8}, 2\right\}$

c. $\left\{\frac{3}{8}, 2\right\}$

d. $\{-16, 3\}$

Solve the equation by factoring.

66. $36a^3 - 121a = 0$

a. *prime*

b. $\left\{0, -\frac{6}{11}, \frac{6}{11}\right\}$

c. $\left\{0, -\frac{11}{6}, \frac{11}{6}\right\}$

d. $\left\{-\frac{11}{6}, \frac{11}{6}\right\}$

Factor the polynomial.

67. $12b^2 - 192$

a. $(b+4)(b-4)$

b. $(b+16)(b-16)$

c. $12(b+4)(b-4)$

d. $12(b+16)(b-16)$

Solve the equation by factoring.

68. $a^2 - 10a + 25 = 6$

a. $\{5, -5\}$

b. $\{5 \pm \sqrt{6}\}$

c. $\{5, 10\}$

d. $\{10, -10\}$

Write the equation of the axis of symmetry.

69. $y = 2x^2 + 4x - 6$

a. $x = -1$

b. $x = -2$

c. $x = 1$

d. $x = -4$

Find the coordinates of the vertex of the graph of the function.

70. $y = 5x^2 - 4$

a. $\left(0, \frac{5}{4}\right)$

b. $\left(0, \frac{4}{5}\right)$

c. $(4, 0)$

d. $(0, -4)$

Simplify the expression.

71. $\sqrt{13} \cdot \sqrt{17}$

a. $\sqrt{221}$

b. 221

c. $\sqrt{30}$

d. $2\sqrt{221}$

72. $\sqrt{8z^2y^3}$

a. $\sqrt{2y}$

b. $4zy\sqrt{2y}$

c. $2zy\sqrt{2y}$

d. $2zy$

73. $\frac{15}{\sqrt{7}}$

a. $\frac{\sqrt{7}}{15}$

b. $\frac{15\sqrt{7}}{\sqrt{7}}$

c. $\frac{15\sqrt{7}}{7}$

d. $\sqrt{\frac{15}{7}}$

74. $\frac{8}{5 + \sqrt{2}}$

a. $\frac{(5 - \sqrt{2})}{23}$

b. $\frac{8}{23}$

c. $\frac{8(5 - \sqrt{2})}{23}$

d. $\frac{8(5 + \sqrt{2})}{(5 - \sqrt{2})}$

75. $8\sqrt{5} - 1\sqrt{5}$

a. $7\sqrt{5}$

b. $9\sqrt{5}$

c. $7\sqrt{10}$

d. $8\sqrt{5}$

76. $3\sqrt{19h} + 2\sqrt{6g} - 2\sqrt{19h} + 10\sqrt{6g}$

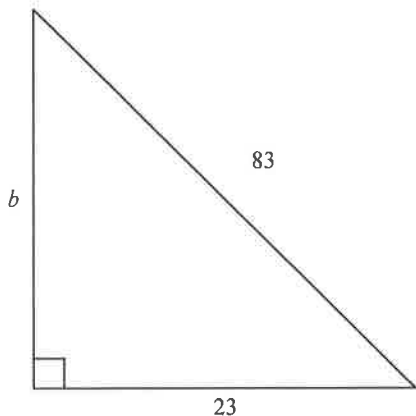
a. $6\sqrt{19h} + 20\sqrt{6g}$

b. $\sqrt{19h} + 12\sqrt{6g}$

c. $\sqrt{38h} + 12\sqrt{12g}$

d. $5\sqrt{19h} - 8\sqrt{6g}$

77. Find the length of the missing side. If necessary, round to the nearest hundredth.



- a. 106
- b. 86.13
- c. 79.75
- d. 60

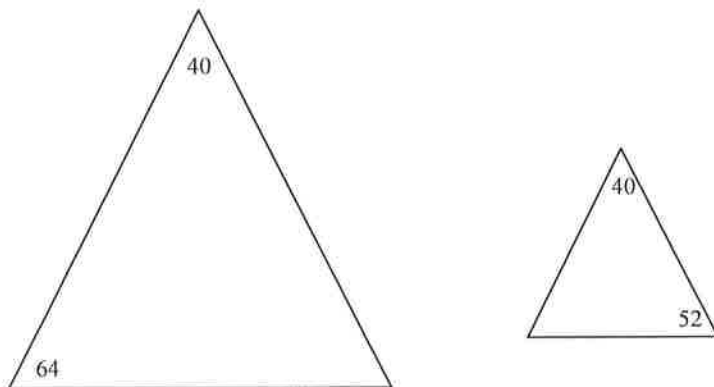
Find the distance between the pair of points whose coordinates are given. Express as a decimal approximation rounded to the nearest hundredth if necessary.

78. $(11, 7), (16, 6)$

- a. 5.1
- b. 29.97
- c. 4.90
- d. 23.66

Determine whether each pair of triangles is similar.

79.



- a. Yes. The angle measures are not equal.
- b. Yes. The angle measures are equal.
- c. No. The angle measures are not equal.
- d. No. The angle measures are equal.

80. Simplify the expression.

$$\frac{6c^3n^3}{27c^2n^2}$$

a. $\frac{2}{9cn}$

b. $\frac{2cn}{9}$

c. $\frac{2c}{9}$

d. $\frac{2n}{9}$

81. Simplify the expression. State the excluded values of the variables.

$$\frac{a^2 + 16a + 63}{a + 7}$$

a. $a + 7; -9$

b. $a + 9; 7$

c. $a + 9; -7$

d. $a + 7; 9$

Find the product and simplify.

82. $\frac{8b}{6a^2} \cdot \frac{6a^3}{9b^3}$

a. $\frac{8}{9b^2}$

b. $\frac{8a^2}{9}$

c. $\frac{8b^2}{9a^2}$

d. $\frac{8a^2}{9b^2}$

83. $\frac{(x-3)}{(x+4)(x+7)} \cdot \frac{(x-1)(x+7)}{(x-3)}$

a. $\frac{(x-3)(x-1)(x+7)}{(x+4)(x+7)(x-3)}$

b. $\frac{x-1}{x+4}$

c. $\frac{x+4}{x-1}$

d. $\frac{(x-3)(x-1)}{(x+4)(x-3)}$

84. Find the quotient.

$$\frac{5a^3}{8k} \div \frac{2a}{8k^2}$$

a. $\frac{10a^4}{64k^3}$

b. $\frac{2}{5a^2k}$

c. $\frac{5a^2k}{2}$

d. $\frac{40a^2k}{16}$

85. Which of these is equivalent to the following expression?

$$-6w - 3(2v + 3w) + 10v$$

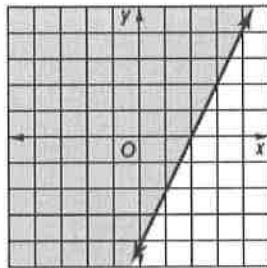
a. $-3w - 4v$

b. $-15w + 4v$

c. $-15w - 4v$

d. $-15w - 16v$

86. Which of the following best represents the graph shown below?



a. $4x - 2y \leq 8$

b. $x - 2y \leq 8$

c. $2x + 4y \geq 8$

d. $2x - 4y \geq 8$

87. What is the solution set to the equation shown below?

$$24x^2 - 42x - 12 = 0$$

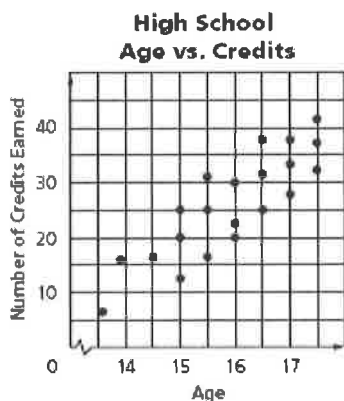
a. $\left\{\frac{1}{4}, -2\right\}$

b. $\left\{-\frac{1}{2}, 1\right\}$

c. $\left\{-\frac{2}{3}, 12\right\}$

d. $\left\{-\frac{1}{4}, 2\right\}$

88. The scatter plot below shows the ages versus the number of high school credits earned. Which of the following is the best approximation for the number of credits earned by a 16 year old?



- a. 10
b. 15
c. 25
d. 40

89. Which of the following demonstrates using the distributive property of multiplication over addition and subtraction?

- a. $(x + 4) + (y + 3) = x + y + 3$
b. $x \cdot (x + 3) = x^2 + 3x$
c. $(x + 4)^2 = 2x + 8$
d. $(x - 2) - (x + 6) = 4$

90. Which of these is equivalent to $(-r^2 \cdot s^3)^4 (-su^5)(ru)^2$?

- a. $-r^{10}s^{13}u^7$
b. $r^{10}s^{13}u^7$
c. $-r^9s^8u^8$
d. $r^8s^8u^8$

91. The sales for a car dealership are shown below.

	January		June	
	Region 1	Region 2	Region 1	Region 2
SUVs	109	150	100	110
Minivans	200	100	210	260
Sedans	150	120	170	190

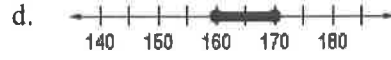
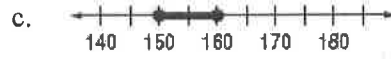
Which matrix represents the total sales for both regions?

- a. $\begin{bmatrix} 9 & 40 \\ 10 & 160 \\ 20 & 70 \end{bmatrix}$
b. $\begin{bmatrix} 209 & 260 \\ 410 & 360 \\ 320 & 310 \end{bmatrix}$
c. $\begin{bmatrix} 209 \\ 410 \\ 320 \end{bmatrix}$
d. $\begin{bmatrix} 209 & 360 \\ 410 & 460 \\ 320 & 310 \end{bmatrix}$

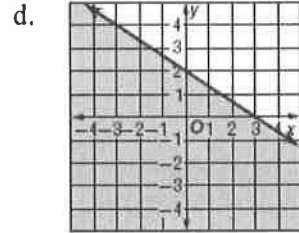
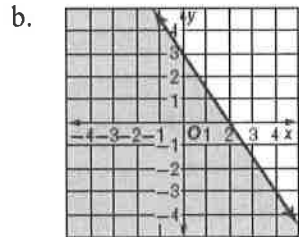
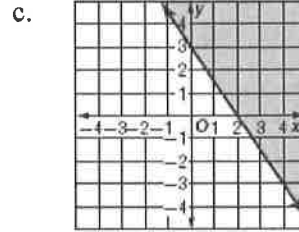
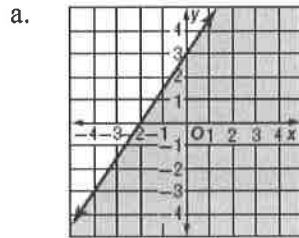
92. Which of these is equivalent to $5(g - 2) - 3(g^2 - 4g)$?

- a. $-3g^2 + 17g - 10$
b. $3g^2 - 17g - 10$
c. $-3g^2 - 7g - 10$
d. $-14g^2 - 10$

93. Your scores at a bowling tournament can be represented by the inequality $|s - 160| \leq 10$, where s is a bowling core. Which of the following graphs shows the range of your scores?



94. Which of the following best represents the graph of the inequality $3x + 2y \leq 6$?



95. What is the solution set for the following equation?
 $|4x + 6| + 5 = 19$

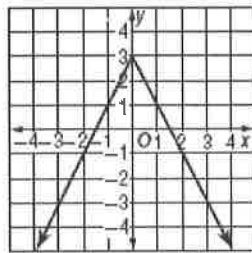
a. $\left\{ -\frac{25}{4}, \frac{13}{4} \right\}$

c. $\{-5, 2\}$

b. $\left\{ -\frac{15}{2}, \frac{9}{2} \right\}$

d. $\{-2, 2\}$

96. What is the range of the function shown below?



- a. All numbers such that $y \leq 3$.
 b. All numbers such that $y \geq 3$.

- c. All numbers such that $y \geq -5$.
 d. All real numbers.

97. Which of the following equals $A + B - C$?

$$A = \begin{bmatrix} 2 & -3 \\ 4 & -1 \end{bmatrix}, \quad B = \begin{bmatrix} 4 & -2 \\ -3 & 2 \end{bmatrix}, \quad C = \begin{bmatrix} -1 & 0 \\ 3 & -2 \end{bmatrix}$$

a. $\begin{bmatrix} 5 & -5 \\ 4 & -1 \end{bmatrix}$

c. $\begin{bmatrix} -3 & -1 \\ 10 & -5 \end{bmatrix}$

b. $\begin{bmatrix} 7 & -5 \\ -2 & 3 \end{bmatrix}$

d. $\begin{bmatrix} -1 & -1 \\ 4 & -1 \end{bmatrix}$

98. Which equation can be used to solve $12x^2 - 7x - 10 = 0$?

a. $(3x + 2)(4x - 5) = 0$

c. $(4x + 2)(3x - 5) = 0$

b. $(6x + 2)(2x - 5) = 0$

d. $(3x + 5)(4x - 2) = 0$

99. Which equation represents a line perpendicular to the graph of $3x - 2y = 12$?

a. $y = -\frac{3}{2}x + 8$

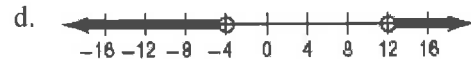
c. $y = -\frac{2}{3}x - 4$

b. $y = \frac{3}{2}x - 8$

d. $x = -\frac{2}{3}y + 4$

100. What is the correct graph of the solutions of the following inequality?

$$\left| \frac{1}{2}x - 2 \right| > 4$$



**Introduction to Algebra II Summer Assignment
Answer Section**

MULTIPLE CHOICE

1. A
2. D
3. A
4. B
5. C
6. D
7. B
8. B
9. A
10. A
11. C
12. A
13. A
14. A
15. A
16. A
17. D
18. D
19. C
20. A
21. D
22. D
23. B
24. A
25. B
26. C
27. B
28. A
29. B
30. C
31. D
32. D
33. D
34. C
35. A
36. C
37. C
38. D
39. C
40. D
41. B

- 42. D
- 43. C
- 44. C
- 45. C
- 46. B
- 47. D
- 48. A
- 49. A
- 50. C
- 51. B
- 52. D
- 53. A
- 54. D
- 55. B
- 56. A
- 57. A
- 58. A
- 59. A
- 60. A
- 61. D
- 62. C
- 63. D
- 64. A
- 65. B
- 66. C
- 67. C
- 68. B
- 69. A
- 70. D
- 71. A
- 72. C
- 73. C
- 74. C
- 75. A
- 76. B
- 77. C
- 78. A
- 79. C
- 80. B
- 81. C
- 82. D
- 83. B
- 84. C
- 85. B
- 86. A
- 87. D
- 88. C

- 89. B
- 90. A
- 91. B
- 92. A
- 93. B
- 94. B
- 95. C
- 96. A
- 97. B
- 98. A
- 99. C
- 100. D

SUBJECTIVE SCORE INSTRUCTOR USE ONLY				
100	90	80	70	60
50	40	30	20	10
9	8	7	6	5
4	3	2	1	0

IMPORTANT

FOR THE SUBJECTIVE SCORE FEATURES:

- Mark total possible subjective points
- Only one mark per line on key
- 161 points maximum

EXAMPLE OF STUDENT SCORE:

A	B	C	D	E
1	2	3	4	5

NA
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DA
RE

PART 1

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

FEED THIS DIRECTION

- | | (T) | (F) | KEY | | |
|-----|-----|-----|-----|---|---|
| | % | 2 | 3 | 4 | 5 |
| 51 | A | B | C | D | E |
| 52 | A | B | C | D | E |
| 53 | A | B | C | D | E |
| 54 | A | B | C | D | E |
| 55 | A | B | C | D | E |
| 56 | A | B | C | D | E |
| 57 | A | B | C | D | E |
| 58 | A | B | C | D | E |
| 59 | A | B | C | D | E |
| 60 | A | B | C | D | E |
| 61 | A | B | C | D | E |
| 62 | A | B | C | D | E |
| 63 | A | B | C | D | E |
| 64 | A | B | C | D | E |
| 65 | A | B | C | D | E |
| 66 | A | B | C | D | E |
| 67 | A | B | C | D | E |
| 68 | A | B | C | D | E |
| 69 | A | B | C | D | E |
| 70 | A | B | C | D | E |
| 71 | A | B | C | D | E |
| 72 | A | B | C | D | E |
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| 74 | A | B | C | D | E |
| 75 | A | B | C | D | E |
| 76 | A | B | C | D | E |
| 77 | A | B | C | D | E |
| 78 | A | B | C | D | E |
| 79 | A | B | C | D | E |
| 80 | A | B | C | D | E |
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| 85 | A | B | C | D | E |
| 86 | A | B | C | D | E |
| 87 | A | B | C | D | E |
| 88 | A | B | C | D | E |
| 89 | A | B | C | D | E |
| 90 | A | B | C | D | E |
| 91 | A | B | C | D | E |
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| 93 | A | B | C | D | E |
| 94 | A | B | C | D | E |
| 95 | A | B | C | D | E |
| 96 | A | B | C | D | E |
| 97 | A | B | C | D | E |
| 98 | A | B | C | D | E |
| 99 | A | B | C | D | E |
| 100 | A | B | C | D | E |

MAKING
ERASE TO CHANGE
EXAMPLE

