

1. $\left(2\frac{1}{2}\right)\left(3\frac{1}{3}\right) =$

- (A) $6\frac{1}{6}$
(B) $-6\frac{1}{6}$
(C) $8\frac{1}{3}$
(D) $-8\frac{1}{3}$

[Answer for Problem 1](#)

2. $\left(-3\frac{1}{3}\right)^2 =$

- (A) $9\frac{1}{9}$
(B) $-13\frac{4}{9}$
(C) $11\frac{1}{9}$
(D) $-11\frac{1}{9}$

[Answer for Problem 2](#)

3. Which of these numbers is the least?

- (A) $-\frac{2}{3}$
(B) 0
(C) 2
(D) -1

[Answer for Problem 3](#)

4. $|-3| =$

- (A) -3
(B) $-\frac{1}{3}$
(C) $\frac{1}{3}$
(D) 3

[Answer for Problem 4](#)

5. $(-8 \div 2) \div (-2)$

- (A) 5
- (B) -5
- (C) 3
- (D) -3

[Answer for Problem 5](#)

6. $-\frac{5}{6} \times -2 =$

- (A) $-\frac{5}{3}$
- (B) $\frac{5}{3}$
- (C) $\frac{12}{5}$
- (D) 1

[Answer for Problem 6](#)

7. $\frac{16}{-4} \times 2 =$

- (A) -2
- (B) -8
- (C) 8
- (D) 2

[Answer for Problem 7](#)

8. Which number is the greatest?

- (A) $-8 + 2$
- (B) $-8 \div 2$
- (C) -8×2
- (D) $-8 - 2$

[Answer for Problem 8](#)

9. Which number is least?

- (A) $|-6 + 2|$
- (B) $|-6| + |2|$
- (C) $-6 + 2$
- (D) $|-6| - 2$

[Answer for Problem 9](#)

10. Which of the following statements is incorrect:

- (A) $3 > -7$
- (B) $-1 < 0$
- (C) $-5 \geq -2$
- (D) $-3 \leq -3$

[Answer for Problem 10](#)

11. If $a = |-1-3|$, $b = |-1|-|-3|$, $c = |-1-(-3)|$ which of the following is true?

- (A) $a > b$
- (B) $a = b$
- (C) $b = c$
- (D) $a < c$

[Answer for Problem 11](#)

12. $\left(-\frac{1}{3}\right)^2 =$

- (A) $-\frac{2}{3}$
- (B) $-\frac{1}{9}$
- (C) $\frac{2}{3}$
- (D) $\frac{1}{9}$

[Answer for Problem 12](#)

13. $(-2)^3 =$

- (A) -6
- (B) -8
- (C) 6
- (D) 8

[Answer for Problem 13](#)

14. $2 \times (-1)^2 =$

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

[Answer for Problem 14](#)

15. If $a = 2$, $b = -5$, and $c = -3$, then $|a + b| + |a - c| =$

- (A) 2
- (B) 5
- (C) 8
- (D) 12

[Answer for Problem 15](#)

16. If $x = 7$, $y = -2$ and $z = -4$, then $|x + y| - 3|y + z| =$

- (A) -13
- (B) -9
- (C) -1
- (D) 23

[Answer for Problem 16](#)

17. If $a = -3$, then $1 - a^2 =$

- (A) 10
- (B) 8
- (C) -5
- (D) -8

[Answer for Problem 17](#)

18. If $x = -2$ and $y = 3$ then $2x + y =$

- (A) 1
- (B) 7
- (C) -1
- (D) 2

[Answer for Problem 18](#)

19. If $m = 2$ and $a = -1$ then $m(a + 3) =$

- (A) 4
- (B) -4
- (C) 1
- (D) -6

[Answer for Problem 19](#)

20. If $x = -6$ and $a = -2$ then $\frac{x-a}{2a} =$

- (A) -4
- (B) -3
- (C) 2
- (D) 1

[Answer for Problem 20](#)

21. If $x = 3$ then $(x - 2)(x - 4)$

- (A) 5
- (B) 1
- (C) -1
- (D) 11

[Answer for Problem 21](#)

22. If $x = -\frac{1}{2}$ and $y = \frac{3}{4}$, then $xy - x^3 =$

- (A) $-\frac{1}{4}$
- (B) $-\frac{1}{2}$
- (C) $-\frac{3}{4}$
- (D) $-\frac{11}{8}$

[Answer for Problem 22](#)

23. If $x = -\frac{1}{2}$ and $y = \frac{3}{4}$, then $\frac{x}{y} =$

- (A) $-\frac{3}{8}$
- (B) $-\frac{2}{3}$
- (C) $-\frac{3}{2}$
- (D) $-\frac{8}{3}$

[Answer for Problem 23](#)

24. $x^2x^3 =$

- (A) 5
- (B) 6
- (C) x^5
- (D) x^6

[Answer for Problem 24](#)

25. $\frac{m^5}{m^2} =$

- (A) m^7
- (B) m^{10}
- (C) m^3
- (D) 3

[Answer for Problem 25](#)

26. $(a^2)^3 =$

- (A) a
- (B) a^5
- (C) a^6
- (D) a^8

[Answer for Problem 26](#)

27. $\frac{p^4}{p} =$

- (A) p^{25}
- (B) p^{10}
- (C) p^7
- (D) p^3

[Answer for Problem 27](#)

28. $\frac{15x^3}{5x} =$

- (A) $5x^2$
- (B) $3x^2$
- (C) $3x^3$
- (D) $3x^4$

[Answer for Problem 28](#)

29. $(3x^2y)(x^3y)$

- (A) $3x^5y$
- (B) $3x^6y$
- (C) $3x^5y^2$
- (D) $6x^5y$

[Answer for Problem 29](#)

30. $(2x^3y)(-4xy^2z^3) =$

- (A) $-8x^3y^2z^3$
- (B) $-8x^4y^3z^3$
- (C) $-2x^3y^2z^3$
- (D) $-2x^4y^3z^3$

[Answer for Problem 30](#)

31. $(2hk^2)^2 =$

- (A) $4hk^2$
- (B) $2hk^4$
- (C) $2h^2k^4$
- (D) $4h^2k^4$

[Answer for Problem 31](#)

32. $(-3mn^2)^3 =$

- (A) $-27m^3n^6$
- (B) $27m^3n^6$
- (C) $-9m^3n^6$
- (D) $-3mn^6$

[Answer for Problem 32](#)

33. $\frac{12x^3y^2}{15xy^2} =$

(A) $\frac{x^2}{3}$

(B) $\frac{4x^4y^4}{5}$

(C) $\frac{4x^2}{5}$

(D) $\frac{4x^3y}{5}$

[Answer for Problem 33](#)

34. $\left(\frac{2x}{3a}\right)\left(\frac{9a^2}{4x}\right) =$

(A) $\frac{3a}{2}$

(B) $\frac{3ax}{2}$

(C) $\frac{3a^3x^2}{2}$

(D) $\frac{2a}{3}$

[Answer for Problem 34](#)

35. $3x - 4y + x - y =$

(A) $3x - 5y$

(B) $4x - 5y$

(C) $3x^2 + 4y^2$

(D) $3x^2 - 4y^2$

[Answer for Problem 35](#)

36. $5m - 4a - 3m + 2a =$

(A) $2m - 2a$

(B) $2m^2 - 2a^2$

(C) $-15m^2 - 8a^2$

(D) $-8m - 6a$

[Answer for Problem 36](#)

37. $4x - 3y - 4 - 2x + 1 =$

- (A) $2x^2 - 3y - 4$
- (B) $2x - 3$
- (C) $6x - 3y - 4$
- (D) $2x - 3y - 3$

[Answer for Problem 37](#)

38. $5(x - 2)$

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

[Answer for Problem 38](#)

39. $3(x - 4) - (2x + 1) =$

- (A) $x - 11$
- (B) $x - 13$
- (C) $x - 3$
- (D) $x - 5$

[Answer for Problem 39](#)

40. $2(3a - 1) - 3(a + 2)$

- (A) $3a + 1$
- (B) $3a^2 - 8$
- (C) $3a$
- (D) $3a - 8$

[Answer for Problem 40](#)

41. $3(a + 2) + 5(2a - 3)$

- (A) $4a$
- (B) $10a - 9$
- (C) $13a - 1$
- (D) $13a - 9$

[Answer for Problem 41](#)

42. $2(r - 3s) - 4(3r + s) =$

- (A) $-2(r + s)$
- (B) $-2(r - s)$
- (C) $-10(r + s)$
- (D) $-10(r - s)$

[Answer for Problem 42](#)

43. $3x(x - 2) + 2(5x + 4)$

- (A) $13x + 2$
- (B) $3x^2 + 4x + 8$
- (C) $13x^2 - 6x + 8$
- (D) $30x^2 + 12x + 8$

[Answer for Problem 43](#)

44. $5x(3x^2 - x) - 3x^2(4 - 5x) =$

- (A) $15x^3 + 15x^2 - 17x$
- (B) $30x^3 - 17x^2$
- (C) $-17x^2$
- (D) $-7x^2$

[Answer for Problem 44](#)

45. $(x - 1)(x + 5)$

- (A) $x^2 - 4x - 5$
- (B) $x^2 - 5$
- (C) $x^2 + 4x - 5$
- (D) $5x - 5$

[Answer for Problem 45](#)

46. $(2x - 3)(x + 2)$

- (A) $2x^2 - 6$
- (B) $2x^2 - x - 6$
- (C) $2x^2 + x - 6$
- (D) $4x - 6$

[Answer for Problem 46](#)

47. $(2a + x)^2 =$

- (A) $4a^2 + 2ax + x^2$
- (B) $4a + 2x$
- (C) $4a^2 + 4ax + x^2$
- (D) $4a^2 + x^2$

[Answer for Problem 47](#)

48. $(ay - 3)(2y + m)$

- (A) $2ay^2 + amy - 6y - 3m$
- (B) $2ay^2 - 6amy - 3m$
- (C) $2ay^2 - 3m$
- (D) $2ay - 6y + amy - 3m$

[Answer for Problem 48](#)

49. $(3a - 2)(2a + 7)$

- (A) $6a^2 - 14$
- (B) $6a^2 + 17a - 14$
- (C) $6a^2 - 17a - 14$
- (D) $6a^2 - 25a - 14$

[Answer for Problem 49](#)

50. $(4x - 3y)^2 =$

- (A) $16x^2 - 9y^2$
- (B) $16x^2 + 9y^2$
- (C) $16x^2 - 12xy + 9y^2$
- (D) $16x^2 - 24xy + 9y^2$

[Answer for Problem 50](#)

51. $(2y - 1)(5y^2 - 2y + 4) =$

- (A) $7y^3 - 9y^2 + 10y - 4$
- (B) $7y^3 + 4y^2 - 3y - 4$
- (C) $10y^3 - 9y^2 + 10y - 4$
- (D) $10y^3 + 4y^2 - 3y - 4$

[Answer for Problem 51](#)

52. $(5b + 3)(5b - 3)$

- (A) $25b^2 + 30b - 9$
- (B) $25b^2 - 9$
- (C) $10b - 9$
- (D) $10b$

[Answer for Problem 52](#)

53. $6m - 3 =$

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

[Answer for Problem 53](#)

54. $8x + 12 =$

- (A) $8(x + 4)$
- (B) $4(2x + 3)$
- (C) $4(2x + 8)$
- (D) $8(x + 12)$

[Answer for Problem 54](#)

55. $x^2 - x =$

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

[Answer for Problem 55](#)

56. $6x^2 - 10x =$

- (A) $3x - 5$
- (B) $6x(x - 10)$
- (C) $2x(3x - 5)$
- (D) $-4(x^2 - x)$

[Answer for Problem 56](#)

57. $m^3 + 2m^2 + m =$

- (A) $2m^6$
- (B) $m(m^2 + 2m)$
- (C) $m(m + 1)^2$
- (D) $m^2(m + 2)$

[Answer for Problem 57](#)

58. $x^2 - 9 =$

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

[Answer for Problem 58](#)

59. $a^2 - b^2 =$

- (A) $(a - b)(a + b)$
- (B) $(a - b)^2$
- (C) $a(a - b)$
- (D) $ab(a - b)$

[Answer for Problem 59](#)

60. $3a^4b + 12a^2b^2 =$

- (A) $15a^6b^3$
- (B) $3a^2b^2(a^2 + 4)$
- (C) $3a^2b(a^2b + 4)$
- (D) $3a^2b(a^2 + 4b)$

[Answer for Problem 60](#)

61. $y^2 - 5y + 6 =$

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

[Answer for Problem 61](#)

62. $x^2 + 2x - 3 =$

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

[Answer for Problem 62](#)

63. $2m^2 + 3m + 1 =$

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

[Answer for Problem 63](#)

64. $2x^2 + 5x - 3 =$

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

[Answer for Problem 64](#)

65. $3x^2 - 16x - 12 =$

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

[Answer for Problem 65](#)

66. One factor of $2x^2 - 9x + 4$ is

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

[Answer for Problem 66](#)

67. $\frac{x^2}{4} - 9 =$

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

[Answer for Problem 67](#)

68. $\frac{m^2 - m}{2m} =$

- (A) $\frac{1}{2}$
- (B) $m - 1$
- (C) $\frac{m - 1}{2}$
- (D) $\frac{m}{2}$

[Answer for Problem 68](#)

69. $\frac{3x + 3y}{x + y}$

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

[Answer for Problem 69](#)

70. $\frac{8x^2 - 12x}{8x} =$

- (A) $x - 12$
- (B) $-11x$
- (C) $\frac{x - 4}{x}$
- (D) $\frac{2x - 3}{2}$

[Answer for Problem 70](#)

71. $\frac{2}{x} + \frac{1}{x+1} =$

- (A) $\frac{3x+2}{x(x+1)}$
- (B) $\frac{3}{x(x+1)}$
- (C) $\frac{4}{x+1}$
- (D) $\frac{3}{x+1}$

[Answer for Problem 71](#)

72. $\frac{x}{x+2} - \frac{3}{x-2} =$

- (A) $\frac{x^2 - 5x - 6}{x^2 - 4}$
- (B) $\frac{x^2 + x + 6}{x^2 - 4}$
- (C) $\frac{3x^2 + 5x - 6}{x^2 - 4}$
- (D) $\frac{3x^2 - 5x + 6}{x^2 - 4}$

[Answer for Problem 72](#)

73. $\frac{4}{a} + \frac{1}{2a} =$

(A) $\frac{9}{2a}$

(B) $\frac{5}{2a^2}$

(C) $\frac{9}{4a}$

(D) $\frac{5}{2a}$

[Answer for Problem 73](#)

74. $\frac{2}{x-1} + \frac{3}{x} =$

(A) $\frac{5x-3}{x(x-1)}$

(B) $\frac{5x-1}{x(x-1)}$

(C) $\frac{5}{2x-1}$

(D) $\frac{5}{x(x-1)}$

[Answer for Problem 74](#)

75. $\frac{3}{\frac{2}{m} + \frac{1}{n}} =$

(A) mn

(B) $\frac{mn}{3}$

(C) $\frac{3mn}{2n+m}$

(D) $\frac{3mn}{2m+n}$

[Answer for Problem 75](#)

76. $\frac{\frac{1}{x}}{\frac{1}{x} + \frac{1}{y}} =$

(A) $\frac{xy}{x+y}$

(B) $1+xy$

(C) $\frac{x}{x+y}$

(D) $\frac{y}{y+x}$

[Answer for Problem 76](#)

77. $\frac{\frac{3}{a}}{\frac{1}{a}-1} =$

(A) $\frac{3}{1-a}$

(B) $\frac{3}{a-1}$

(C) 2

(D) $\frac{3(a-1)}{a}$

[Answer for Problem 77](#)

78. $\sqrt{\frac{25}{4}} =$

(A) $\frac{5}{4}$

(B) $\frac{5}{2}$

(C) $6\frac{1}{4}$

(D) $6\frac{1}{2}$

[Answer for Problem 78](#)

79. $\sqrt{32} =$

- (A) $4\sqrt{2}$
- (B) $4\sqrt{8}$
- (C) $16\sqrt{2}$
- (D) 8

[Answer for Problem 79](#)

80. $\sqrt[3]{8} =$

- (A) $2\sqrt{2}$
- (B) $2\sqrt[3]{2}$
- (C) $4\sqrt[3]{2}$
- (D) 2

[Answer for Problem 80](#)

81. $\sqrt[4]{81} =$

- (A) $3\sqrt[4]{9}$
- (B) $9\sqrt[4]{9}$
- (C) 3
- (D) 9

[Answer for Problem 81](#)

82. $\sqrt{18x^4} =$

- (A) $3x^2\sqrt{2}$
- (B) $3\sqrt{2x^2}$
- (C) $3x\sqrt{2x}$
- (D) $x\sqrt{18}$

[Answer for Problem 82](#)

83. $\sqrt[3]{27a^3b^6} =$

- (A) $3ab^2\sqrt[3]{3}$
- (B) $3\sqrt[3]{3ab^2}$
- (C) $3\sqrt[3]{ab^2}$
- (D) $3ab^2$

[Answer for Problem 83](#)

84. $\sqrt[4]{16m^8} =$

- (A) $2m^4$
- (B) $2m^2$
- (C) $4m^4$
- (D) $4m^2$

[Answer for Problem 84](#)

85. $\sqrt{16x^4} =$

- (A) $8x^4$
- (B) $4x$
- (C) $4x^2$
- (D) $8x^2$

[Answer for Problem 85](#)

86. $\sqrt[3]{8m^6} =$

- (A) $2m^3$
- (B) $2m^2$
- (C) $\frac{8m^6}{3}$
- (D) $\frac{8m^2}{2}$

[Answer for Problem 86](#)

87. If $x+5 = -12$, then $x =$

- (A) 7
- (B) -7
- (C) 17
- (D) -17

[Answer for Problem 87](#)

88. If $6x = 15$, then $x =$

- (A) -9
- (B) 9
- (C) $\frac{2}{5}$
- (D) $\frac{5}{2}$

[Answer for Problem 88](#)

89. If $\frac{2}{3}m = 12$, then $m =$

- (A) 8
- (B) $11\frac{1}{3}$
- (C) $13\frac{1}{3}$
- (D) 18

[Answer for Problem 89](#)

90. If $2a - 7 = 3$, then $a =$

- (A) $8\frac{1}{3}$
- (B) 5
- (C) $\frac{1}{5}$
- (D) -2

[Answer for Problem 90](#)

91. If $5(3 - x) = 12$, then $x =$

- (A) 10
- (B) $\frac{6}{5}$
- (C) $\frac{3}{5}$
- (D) $\frac{-3}{5}$

[Answer for Problem 91](#)

92. If $2(3x - 1) = 2$, then x

- (A) $\frac{2}{3}$
- (B) 0
- (C) $\frac{1}{2}$
- (D) $\frac{3}{2}$

[Answer for Problem 92](#)

93. If $3 = \frac{m}{m+2}$ then $m =$

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

[Answer for Problem 93](#)

94. If $\frac{x}{x+1} = 5$, then $x =$

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

[Answer for Problem 94](#)

95. If $bx = a - x$ then $x =$

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

[Answer for Problem 95](#)

96. If $x^2 + x - 12 = 0$ then x could be

- (A) 4
- (B) -4
- (C) -3
- (D) 6

[Answer for Problem 96](#)

97. For which of the following equations is $x = 2$ a solution

I $x(x - 2) = 0$

II $x^2 - 2 = 0$

- (A) I and II
- (B) I only
- (C) II only
- (D) neither

[Answer for Problem 97](#)

98. Which of the following is a solution of $3x(2x - 1) = 0$?

- (A) $-\frac{1}{2}$
- (B) $\frac{1}{2}$
- (C) 1
- (D) 2

[Answer for Problem 98](#)

99. Which of the following is a solution of $(x + 4)(2x - 3) = 0$?

- (A) 0
- (B) 4
- (C) $\frac{3}{2}$
- (D) $-\frac{3}{2}$

[Answer for Problem 99](#)

100. Which of the following is a solution of $2x^2 - 9x - 5 = 0$?

- (A) 0
- (B) 2
- (C) 5
- (D) 9

[Answer for Problem 100](#)

101. If a number is multiplied by 3 and then 4 is added, then the result is 10. What is the number?

- (A) 2
- (B) 3
- (C) $\frac{7}{3}$
- (D) $\frac{14}{3}$

[Answer for Problem 101](#)

102. Three fifths of a number is 20 less than 8. What is the number?

- (A) 20
- (B) -20
- (C) $\frac{36}{5}$
- (D) $-\frac{36}{5}$

[Answer for Problem 102](#)

103. Which of the following represents the sum of two consecutive integers if the smaller integer is n ?

- (A) $n+1$
- (B) $2n+1$
- (C) $n+2$
- (D) $2n+2$

[Answer for Problem 103](#)

104. If p is an odd number, then the sum of the next two larger odd numbers is represented by

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

[Answer for Problem 104](#)

105. Dan has \$17 more than Colleen. Combined, they have \$143. How much money does Dan have?

- (A) \$42
- (B) \$63
- (C) \$80
- (D) \$126

[Answer for Problem 105](#)

106. Maria's car will travel m miles on 14 gallons of gas. How many miles will it go on 20 gallons of gas?

(A) $m + \frac{m}{6}$

(B) $m + \frac{6}{m}$

(C) $\frac{10m}{7}$

(D) $\frac{7m}{10}$

[Answer for Problem 106](#)

107. If 5 less than twice a number is 7, then the number is

(A) 6

(B) -1

(C) 1

(D) 0

[Answer for Problem 107](#)

108. If a number is divided by 3 and then 4 is added, the result is 1. The number is

(A) -9

(B) 9

(C) -1

(D) 1

[Answer for Problem 108](#)

109. Greg has 3 more than twice as many DVD's as Dan. Together they have 15. Which equation would be used to determine the number of DVD's that Dan has?

(A) $2x + 3 = 15$

(B) $(2x + 3) + x = 15$

(C) $2(x + 3) = 15$

(D) $x + 2(x + 3) = 15$

[Answer for Problem 109](#)

110. A car travels x miles in three hours. If it continues at the same rate how many miles will it travel in 5 hours?

- (A) $5x$
- (B) $\frac{3x}{5}$
- (C) $\frac{5x}{3}$
- (D) $3x+5$

[Answer for Problem 110](#)

111. If $3t+15 < 11$, then

- (A) $t > \frac{4}{3}$
- (B) $t < \frac{4}{3}$
- (C) $t > \frac{-4}{3}$
- (D) $t < \frac{-4}{3}$

[Answer for Problem 111](#)

112. If $8-2z \geq 9$, then

- (A) $z \leq \frac{1}{2}$
- (B) $z \geq \frac{1}{2}$
- (C) $z \leq \frac{-1}{2}$
- (D) $z \geq \frac{-1}{2}$

[Answer for Problem 112](#)

113. If $a \geq -1$, then $a-4$ must be

- (A) -5
- (B) greater than -5
- (C) less than or equal to -5
- (D) greater than or equal to -5

[Answer for Problem 113](#)

114. If $3 < x < 5$, then $3 - x$ must be

- (A) greater than zero
- (B) between zero and two
- (C) less than -2
- (D) between -2 and zero

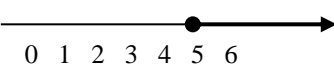
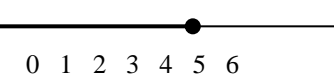
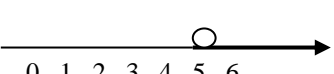
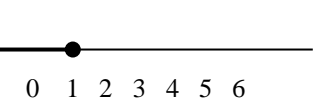
[Answer for Problem 114](#)

115. Which is equivalent to $2x + 3 < x - 5$?

- (A) $x < -2$
- (B) $x < -8$
- (C) $x < 8$
- (D) $x < 2$

[Answer for Problem 115](#)

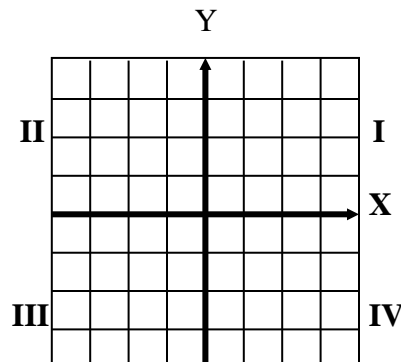
116. Which is the graph of $2 \leq x - 3$

- (A) 
- (B) 
- (C) 
- (D) 

[Answer for Problem 116](#)

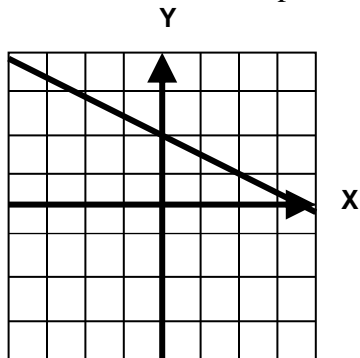
117. In which region is the point $(-2, -3)$?

- (A) I
- (B) II
- (C) III
- (D) IV



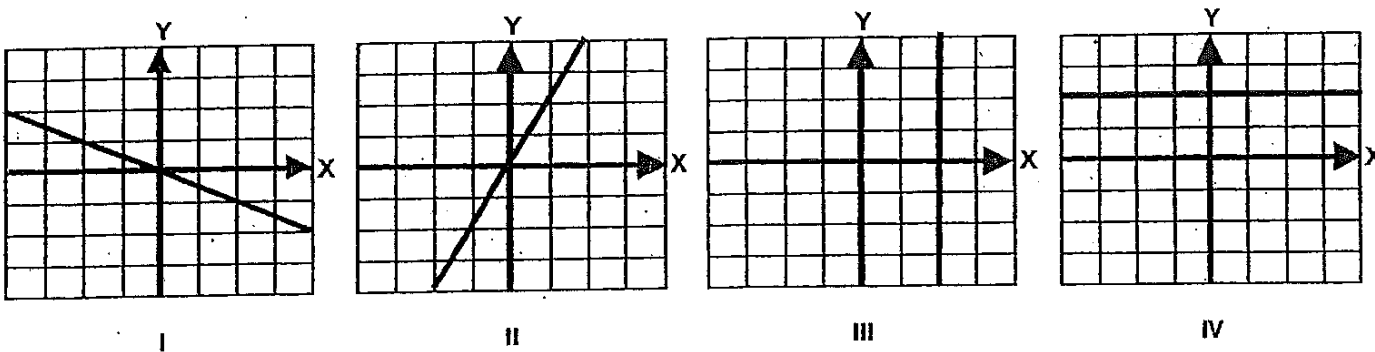
[Answer for Problem 117](#)

118. The coordinates of the point where the graph crosses the y axis are



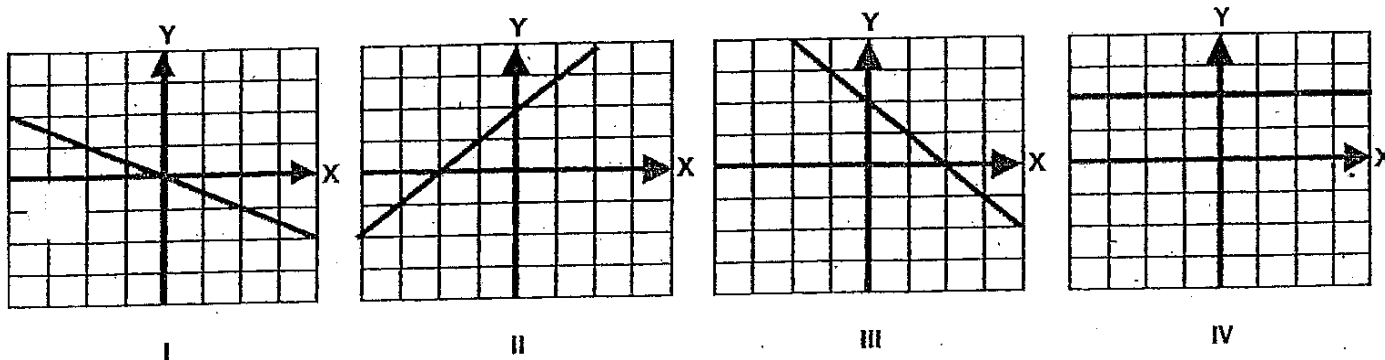
- (A) (0,6) (B) (6,0) (C) (0,2) (D) (2,0) [Answer for Problem 118](#)

119. Which is the graph of $y = 2x$?



- (A) I (B) II (C) III (D) IV [Answer for Problem 119](#)

120. Which is the graph of $y = -x + 2$?



- (A) I (B) II (C) III (D) IV

[Answer for Problem 120](#)

121. If $\begin{cases} a + b = 3 \\ a - b = 7 \end{cases}$, then

- (A) $a = 2, b = 1$
 (B) $a = 5, b = -2$
 (C) $a = 7, b = -4$
 (D) $a = 10, b = -7$

[Answer for Problem 121](#)

122. If $\begin{cases} 3x + y = 10 \\ 2x + y = 7 \end{cases}$, then

- (A) $x = 1, y = 7$
 (B) $x = 3, y = 1$
 (C) $x = 5, y = 2$
 (D) $x = 2, y = 4$

[Answer for Problem 122](#)

123. In the solution of the system of equations $\begin{cases} x + 2y = 9 \\ 2x - y = 8 \end{cases}$ what is the value of y ?

- (A) 5
- (B) 2
- (C) $\frac{17}{3}$
- (D) 1

[Answer for Problem 123](#)
