

MATH 93 FINAL REVIEW

College Of Southern Nevada
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1. How many terms we have in the expression $2x + 4y + 7$?
2. What are the factors of $11x$?
3. What is the coefficient of $-x$?

Simplify.

4. $-7 - 11$

6. $-7 - (-3)$

8. $-1 - (-4) + 3 - 5 + (-1) - (2) - (+7)$

10. $-7(-5)$

12. $-2(-5)(2)(-3)(-1)$

14. $(-1)^{99}$

16. $(-2)^4$

18. $(-2)^3$

20. $-16 \div -2$

22. $\frac{15}{-3}$

24. $\frac{0}{-4}$

26. $\frac{3-3}{5}$

28. $-4(-2)^2 - (-7)$

30. $-5^2 - (-5)^2$

32. $\frac{6(-3) - 11 + 1}{4^2 - 3^2}$

5. $-13 + 9$

7. $-5 - (+15)$

9. $|-9|$

11. $-3(7)$

13. $3(-4)(-1)(-2)$

15. $(-1)^{98}$

17. -2^4

19. -2^3

21. $-(-2)^2$

23. $\frac{-27}{-9}$

25. $\frac{-2-1}{4-4}$

27. $4(20 - 5 \cdot 3 + 2) - 4$

29. $49 \div (-7) \cdot 3$

31. $8 - 4 \cdot |-3 - 9| + (-1)^{99} + (-1)^{200}$

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Evaluate.

33. $2x - 7$ for $x = 3$

34. $-3y - 11$ for $y = -2$

Simplify.

35. $2x + 4 + 7x + 3 + x$

36. $-2x + 11 + x - 21$

37. $-y - y - y - y$

38. $4m - 4x - 7m - 2x + x$

39. $3(4)x$

40. $-3(-2)(-1)(x)(y)$

41. $3(4 + x)$

42. $-5(2 - y)$

43. $3(2x - 5) - 7(2 - x)$

44. $-(p - 1) - (3 - 6p) - 3$

Solve and check.

45. $m - 14 = -30$

46. $-3x = 18$

47. $-5 = -4 + y$

48. $2 - a = 1$

49. $5 - 3y = 14$

50. $-3m + 9 = 45$

51. $20a + 27 = 17a + 51$

52. $3W + 43 = -6W - 20$

53. $x = -8x + 54$

54. $-2(3x + 9) = 42$

55. $5(4y - 10) = 6(3y - 8)$

56. $4(3y - 5) - 2(4y - 5) = 3(-2y - 30)$

Identify the unknown(s), set up the equation, then solve the word problem.

57. Sam's height decreased by 5 is 2 feet. Find Sam's height.

58. The difference between a number and 9 results in 20. Find the number.

59. Fifteen less than 3 times the height of a wall is 51. Find the height of the wall.

60. A ring costs \$120 more than 5 times a necklace. Together they cost \$3696. Find the cost of each

61. The daily listening audience of an AM radio station is four times as large as that of its FM sister station. If 100,000 people listen to these two radio stations, how many listeners does the FM station have?

62. The midweek workout for a fitness instructor consisted of jogging and bicycling. If she biked 8 more miles than she jogged and her workout covered a total of 18 miles, find the length of each part of her workout.

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63. The length of a rectangle is 4 inches less than twice its width, express width and the length of the rectangle.

64. Simplify and write the result in lowest terms $\frac{8B - 2}{2}$

65. Reduce to lowest terms. $\frac{-36a^3b^2}{48a^{12}b}$

Perform the indicated operation write the result in lowest terms.

66. $-\frac{4}{6} + 3$

67. $\frac{6}{5} \div (-\frac{3}{10})$

68. $\frac{4}{x} - \frac{3}{5}$

69. $(\frac{3x^3}{10}) \div 12x^5$

70. $75\frac{3}{4} - 24\frac{5}{6}$

71. $(-1\frac{10}{25})(-\frac{4}{9})(\frac{3}{8})$

72. $\frac{7y+1}{7} - \frac{y-3}{7}$

73. $-\frac{5}{24} - \frac{4}{16}$

Solve.

74. $9m - 2 = 4$

75. $x + \frac{14}{15} = -\frac{1}{5}$

76. $\frac{3}{4}x - \frac{1}{2} = \frac{5}{8}x$

77. $\frac{x}{-5} = 7$

78. $37.1x - 93.4 = 2(8.4x - 6.1)$

79. If March home sales were 3% higher than January home sales, and there were 3100 homes sold in January, how many were sold in March?

80. A math student took a 64 question test and had 40 correct. What percent is this?

81. Find the perimeter and area of a carpet that measures $4\frac{1}{3}$ feet by 11 feet.

82. Find the circumference and area of a circular table with a radius of 4 feet.

Answers

1. *3 terms*
2. *11 and x*
3. -1
4. -18
5. -4
6. -4
7. -20
8. -9
9. 9
10. 35
11. -21
12. 60
13. -24
14. -1
15. 1
16. 16
17. -16
18. -8
19. -8
20. 8
21. -4
22. -5
23. 3
24. 0
25. *undefined*
26. 0
27. 24
28. -9
29. -21
30. -50
31. -40
32. -4
33. -1
34. -5
35. $10x + 7$
36. $-x - 10$
37. $-4y$
38. $-3m - 5x$
39. $12x$
40. $-6xy$
41. $3x + 12$
42. $5y - 10$
43. $13x - 29$
44. $5p - 5$
45. $m = -16$
46. $x = -6$
47. $y = -1$
48. $a = 1$
49. $y = -3$
50. $m = -12$
51. $a = 8$
52. $W = -7$
53. $x = 6$
54. $x = -10$
55. $y = 1$
56. $y = -8$
57. *7 feet*
58. 29
59. 22
60. *Nec. cost \$596, Ring cost \$3100*
61. *AM : 80,000, FM : 20,000*
62. *Biked 13mi, Jogged 5mi*
63. *width = x , length = $2x - 4$*

Answers

64. $4B - 1$

66. $2\frac{1}{3}$

68. $\frac{20 - 3x}{5x}$

70. $50\frac{11}{12}$

72. $\frac{6y + 4}{7}$

74. $m = \frac{2}{3}$

76. $x = 4$

78. $x = 4$

80. 62.5% correct

82. $C \approx 25.12 \text{ ft}, A \approx 50.24 \text{ ft}^2,$

84. $2\frac{4}{21} \text{ in}^3$

86. b^8

88.. $432x^{14}$

90. $-9x^2 - 5x + 8$

92. $3y^3 - 6y$

94. -35.238

65. $\frac{-3b}{4a^9}$

67. -4

69. $\frac{1}{40x^2}$

71. $\frac{7}{30}$

73. $\frac{-11}{24}$

75. $x = -1\frac{2}{15}$

77. $x = -35$

79. 3193 homes

81. $P = 30\frac{2}{3} \text{ ft}, A = 47\frac{2}{3} \text{ ft}^2$

83. $11\frac{2}{3} \text{ ft}^2$

85. y^8

87. $9x^6y^4$

89. $4a^2 - 10a - 2$

91. $6x^2 + 7x - 3$

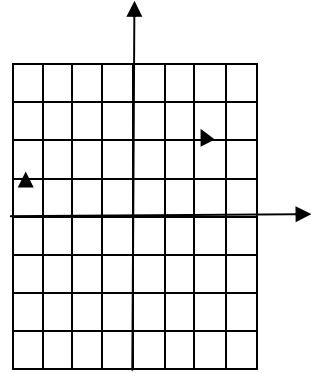
93. $x^2 - 4x + 4$

95. 94

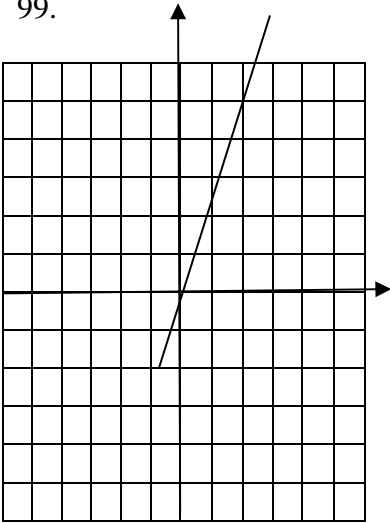
96. $1\frac{33}{64}$

98. yes

97.



99.



100.

