

## Homework #10a

Simplify

1.  $4p^3 + 9$

2.  $\frac{8a}{-4a^2b}$

3.  $ab \times 7a^3$

4.  $18a^2b^4 \div 2b^2$

5.  $6y - 5y^2 + 5y + 8y^2$

6.  $80x^2y \div 8x^2$

7.  $10c^2 + 6d^2 + 9d^2$

8.  $-3n^3 + 4n^3$

9.  $5mn + 3mn$

10.  $5b^2 \times 10a^2b$

11.  $2x^2 \times 6y$

12.  $40x^2y^3 \div 8xy^2$

13.  $\frac{5x^3}{x}$

14.  $2a^3 + 3a^3$

15.  $-3y \times 2x$

16.  $4 - 3x + 9 + 4x$

17.  $2d^2 - d^2$

18.  $2c^2 + 4c^2 + 10c$

19.  $5x^4y^2 \div xy^2$

20.  $\frac{8x^2}{-8x^2}$

21.  $6xy \times 10y^2$

22.  $10y - 6y^2 + 10y + 6y^2$

23.  $70ab \div 7a$

24.  $8a^2 \times -a^3$

25.  $9m^3 + 6m^3$

26.  $q^2 - q^2$

27.  $50x^3y \div 10x$

28.  $9a^2 + a^2 + 2a$

29.  $24y^2 \div 6y^2$

30.  $45bc \div 5c$

31.  $8x^3 \times 4y$

32.  $\frac{-20b}{12ab}$

33.  $2c - 4c$

34.  $8q + 1 + 9q$

35.  $8n^3 + n^3$

36.  $-b \times 7b^2$

37.  $a - a^2 - 2a + 10a^2$

38.  $7c^3 - 7c^3$

39.  $30x^5y \div 6x^3$

40.  $b^2 + 7b + 7b^2$

41.  $9a^2 \times 7$

42.  $8a - 8a^2 + 6a + 8a^2$

43.  $8y^2 + 2y^2$

44.  $24bc \div 6c$

45.  $\frac{8a^2}{16ab}$

46.  $4x \times 9x^3$

47.  $-8a^2 \div 4a^2$

48.  $-\frac{40a^2}{-8a^2}$

49.  $6m^2 - 3m^2$

50.  $9 - 2y + 2 + 3y$

51.  $6 \times xy$

52.  $6d^2 + 8d^2$

53.  $7a^2 + 4b^2 + 8b^2$

54.  $7ab \times -4$

55.  $90x^2y^2 \div 10xy$

56.  $3 - 8x + 2 + 10x$

57.  $8n^2 + 2n + 2n^2$

58.  $14xy^2 \div 7xy^2$

59.  $9q^3 + 6q^3$

60.  $-xy^2 + 7xy^2$

61.  $10a^2 \div 10a$

62.  $6x^2 \times 8y$

63.  $\frac{-10b^2}{30ab}$

64.  $8a \times 3a^2$

65.  $10d + 2d + 1$

66.  $8ab + 4ab$

67.  $-20xy \div 10y$

68.  $8p^3 - p^3$

69.  $7b^2 \times 5a^2$

70.  $2x \times y$

71.  $35d \div 5$

72.  $10x - 3x^2 + 2x + 10x^2$

## Answers Homework #10a

Simplify

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| 1. $4p^3 + 9 = 13p^3$                    | 25. $9m^3 + 6m^3 = 15m^3$              | 49. $6m^2 - 3m^2 = 3m^2$                   |
| 2. $8a/-4a^2b = -2/ab$                   | 26. $q^2 - q^2 = 0$                    | 50. $9 - 2y + 2 + 3y = 11 + y$             |
| 3. $ab \times 7a^3 = 7a^4b$              | 27. $50x^3y \div 10x = 5x^2y$          | 51. $6 \times xy = 6xy$                    |
| 4. $18a^2b^4 \div 2b^2 = 9a^2b^2$        | 28. $9a^2 + a^2 + 2a = 10a^2 + 2a$     | 52. $6d^2 + 8d^2 = 14d^2$                  |
| 5. $6y - 5y^2 + 5y + 8y^2 = 11y + 3y^2$  | 29. $24y^2 \div 6y^2 = 4$              | 53. $7a^2 + 4b^2 + 8b^2 = 7a^2 + 12b^2$    |
| 6. $80x^2y \div 8x^2 = 10y$              | 30. $45bc \div 5c = 9b$                | 54. $7ab \times -4 = -28ab$                |
| 7. $10c^2 + 6d^2 + 9d^2 = 10c^2 + 15d^2$ | 31. $8x^3 \times 4y = 32x^3y$          | 55. $90x^2y^2 \div 10xy = 9xy$             |
| 8. $-3n^3 + 4n^3 = n^3$                  | 32. $-20b/12ab = -5/3a$                | 56. $3 - 8x + 2 + 10x = 5 + 2x$            |
| 9. $5mn + 3mn = 8mn$                     | 33. $2c - 4c = -2c$                    | 57. $8n^2 + 2n + 2n^2 = 10n^2 + 2n$        |
| 10. $5b^2 \times 10a^2b = 50a^2b^3$      | 34. $8q + 1 + 9q = 17q + 1$            | 58. $14xy^2 \div 7xy^2 = 2$                |
| 11. $2x^2 \times 6y = 12x^2y$            | 35. $8n^3 + n^3 = 9n^3$                | 59. $9q^3 + 6q^3 = 15q^3$                  |
| 12. $40x^2y^3 \div 8xy^2 = 5xy$          | 36. $-b \times 7b^2 = -7b^3$           | 60. $-xy^2 + 7xy^2 = 6xy^2$                |
| 13. $5x^3/x = 5x^2$                      | 37. $a - a^2 - 2a + 10a^2 = -a + 9a^2$ | 61. $10a^2 \div 10a = a$                   |
| 14. $2a^3 + 3a^3 = 5a^3$                 | 38. $7c^3 - 7c^3 = 0$                  | 62. $6x^2 \times 8y = 48x^2y$              |
| 15. $-3y \times 2x = -6xy$               | 39. $30x^5y \div 6x^3 = 5x^2y$         | 63. $-10b^2/30ab = -b/3a$                  |
| 16. $4 - 3x + 9 + 4x = 13 + x$           | 40. $b^2 + 7b + 7b^2 = 8b^2 + 7b$      | 64. $8a \times 3a^2 = 24a^3$               |
| 17. $2d^2 - d^2 = d^2$                   | 41. $9a^2 \times 7 = 63a^2$            | 65. $10d + 2d + 1 = 12d + 1$               |
| 18. $2c^2 + 4c^2 + 10c = 6c^2 + 10c$     | 42. $8a - 8a^2 + 6a + 8a^2 = 14a$      | 66. $8ab + 4ab = 12ab$                     |
| 19. $5x^4y^2 \div xy^2 = 5x^3$           | 43. $8y^2 + 2y^2 = 10y^2$              | 67. $-20xy \div 10y = -2x$                 |
| 20. $8x^2/-8x^2 = -1$                    | 44. $24bc \div 6c = 4b$                | 68. $8p^3 - p^3 = 7p^3$                    |
| 21. $6xy \times 10y^2 = 60xy^3$          | 45. $8a^2/16ab = a/2b$                 | 69. $7b^2 \times 5a^2 = 35a^2b^2$          |
| 22. $10y - 6y^2 + 10y + 6y^2 = 20y$      | 46. $4x \times 9x^3 = 36x^4$           | 70. $2x \times y = 2xy$                    |
| 23. $70ab \div 7a = 10b$                 | 47. $-8a^2 \div 4a^2 = -2$             | 71. $35d \div 5 = 7d$                      |
| 24. $8a^2 \times -a^3 = -8a^5$           | 48. $-40a^2/-8a^2 = 5$                 | 72. $10x - 3x^2 + 2x + 10x^2 = 12x + 7x^2$ |