Homework #1

Simplify

1. $k^3 \times 4k^3$

2. $3k - 7k$

3. $2k^4 + 3k^4$

4. $8y^2 \div 4y$

5. $6 \times 5x$

6. $3x^3 + 2x^3$

7. $3y^3 + y$

8. $16y^3 \div 4y$

9. $g \times 5$

10. $x^2 - 4x^2$

11. $4y^3 + 4y$

12. $4k^3 \times 2x$

13. $2y^4 \div 4y^4$

14. $4x^3 \div 2x$

15. $5x^2 + 2x^2$

16. $x^3 \times 6$

17. $21x^2 \div 3x$

18. $k + k$

19. $4x - y + x$

20. $3k \times 4k$

21. $3x \div 3x$

22. $2f \div 2$

23. $2y^2 \times 3x^3$

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

25. $4k^4 - k^4$

26. $y - 3y$

27. $4 \times 4y$

28. $3k^3 \times 2$

29. $5x \times 2x^4$

30. $3x^2 \times 2x^3$

31. $4y \times 2x$

32. $y \times 8$

33. $2x^4 \times 3$

34. $8x^4 - 2x^4$

35. $12x \div 6$

36. $3y^3 \times 3y^3$

37. $3k \times 4k^2$

38. $2f + 5$

39. $3x^4 \div 3x$

40. $7x \times 4x^2$

41. $h^2 + 2h^2$

42. $4x^3 \times x$

43. $2y + y$

44. $4y^3 - 2y$

45. $h^2 + 2 - h^2$

46. $y^2 \times 3y^2$

47. $x^2 - 7x^2$

48. $8k^2 + 2k^2$

49. $3x^4 \div x^2$

50. $6x^2 - 5x^2$

51. $x + 2k + 4x$

52. $x^3 + x^4$

53. $2g \times 2g^3$

54. $k^4 \times 3k$

55. $4y + 3y + 2x$

56. $4e^3 \times 2e$

57. $5 - 3y$

58. $2h^3 + 3h^3$

59. $y \times 2x^2$

60. $2k \times 8$

61. $16y \div 4$

62. $2 \times 2x$

63. $1 \times y$

64. $4x \times 2x^3$

65. $3x^2 - 7x^2$

66. $3k^4 + 4k^4$

67. $3k \times 4k$

68. $k^3 + 3k^3$

69. $y^2 \times 5$

70. $3y^4 + 3y^4$

71. $2x^2 + 3x^2$

72. $8x^3 \div 2x$

Answers Homework #1

Simplify

1. $k^3 \times 4k^3 =$ $4k^6$

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

3. $2k^4 + 3k^4 =$ $5k^4$

4. $8y^2 \div 4y =$ $2y$

5. $6 \times 5x =$ $30x$

6. $3x^3 + 2x^3 =$ $5x^3$

7. $3y^3 + y =$ $same$

8. $16y^3 \div 4y =$ $4y^2$

9. $g \times 5 =$ $5g$

10. $x^2 - 4x^2 =$ $-3x^2$

11. $4y^3 + 4y =$ $same$

12. $4k^3 \times 2x =$ $8k^3x$

13. $2y^4 \div 4y^4 =$ 0.5

14. $4x^3 \div 2x =$ $2x^2$

15. $5x^2 + 2x^2 =$ $7x^2$

16. $x^3 \times 6 =$ $6x^3$

17. $21x^2 \div 3x =$ $7x$

18. $k + k =$ $2k$

19. $4x - y + x =$ $5x - y$

20. $3k \times 4k =$ $12k^2$

21. $3x \div 3x =$ 1

22. $2f \div 2 =$ f

23. $2y^2 \times 3x^3 =$ $6y^2x^3$

24. $y^2 \div 2y^2 =$ $\frac{1}{2}$

25. $4k^4 - k^4 =$ $3k^4$

26. $y - 3y =$ ^-2y

27. $4 \times 4y =$ $16y$

28. $3k^3 \times 2 =$ $6k^3$

29. $5x \times 2x^4 =$ $10x^5$

30. $3x^2 \times 2x^3 =$ $6x^5$

31. $4y \times 2x =$ $8xy$

32. $y \times 8 =$ $8y$

33. $2x^4 \times 3 =$ $6x^4$

34. $8x^4 - 2x^4 =$ $6x^4$

35. $12x \div 6 =$ $2x$

36. $3y^3 \times 3y^3 =$ $9y^6$

37. $3k \times 4k^2 =$ $12k^3$

38. $2f + 5 =$ $same$

39. $3x^4 \div 3x =$ x^3

40. $7x \times 4x^2 =$ $28x^3$

41. $h^2 + 2h^2 =$ $3h^2$

42. $4x^3 \times x =$ $4x^4$

43. $2y + y =$ $3y$

44. $4y^3 - 2y =$ $same$

45. $h^2 + 2 - h^2 =$ $= 2$

46. $y^2 \times 3y^2 =$ $3y^4$

47. $x^2 - 7x^2 =$ $-6x^2$

48. $8k^2 + 2k^2 =$ $10h^2$

49. $3x^4 \div x^2 =$ $3x^2$

50. $6x^2 - 5x^2 =$ x^2

51. $x + 2k + 4x = 2k + 5x$

52. $x^3 + x^4 =$ $same$

53. $2g \times 2g^3 =$ $4g^4$

54. $k^4 \times 3k =$ $3k^5$

55. $4y + 3y + 2x = 7y + 2x$

56. $4e^3 \times 2e =$ $8e^4$

57. $5 - 3y =$ $same$

58. $2h^3 + 3h^3 =$ $5h^3$

59. $y \times 2x^2 =$ $2x^2y$

60. $2k \times 8 =$ $16k$

61. $16y \div 4 =$ $4y$

62. $2 \times 2x =$ $4x$

63. $1 \times y =$ y

64. $4x \times 2x^3 =$ $8x^4$

65. $3x^2 - 7x^2 =$ $^-4x^2$

66. $3k^4 + 4k^4 =$ $7k^4$

67. $3k \times 4k =$ $12k^2$

68. $k^3 + 3k^3 =$ $4k^3$

69. $y^2 \times 5 =$ $5y^2$

70. $3y^4 + 3y^4 =$ $6y^4$

71. $2x^2 + 3x^2 =$ $5x^2$

72. $8x^3 \div 2x =$ $4x^2$