Homework #3

Simplify:

1. $2g \times 2g^3$

2. $k^4 \times 3k$

3. $4y + 3y$

4. $y \times 2x^2$

5. $2k \times 8$

6. $x \times 4x^2$

7. $4x \times 2x^3$

8. $3k \times {}^-4k$

9. $k^3 + 3k^3$

10. $y^2 \times 5$

11. $2j^2 + j^2 \times 4$

12. $2k \times 3 + 5k$

13. $30k^4 \div 3 + 5$

14. $4y - 3y \times 2$

15. $2k \times 4$

16. $4y^4 - 3y$

17. $2y \times 2y$

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

19. $3y + 3x + y$

20. $3k^2 \times 3x^2$

21. $\dfrac{25b}{5ab^2}$

22. $2f \times {}^-3$

23. $4k^3 + {}^-2k^3$

24. $\dfrac{5x^2y}{2x^2}$

25. $12k - 12k$

26. $3x^3 \times x^{-1}$

27. $\dfrac{4ef}{8f}$

28. $3x - x^2 + 4x$

29. $12x \div {}^-3x$

30. $8x^2 - 12x^2$

31. $2x - x$

32. $x^4 \times \frac{1}{2}$

33. $7x^2 - 3x^2$

34. $(xy)^2$

35. $\dfrac{4xy}{2x}$

36. $(3y)^2$

37. $\dfrac{4x^2y}{2xy^2}$

38. $7 \times g - g$

39. $\dfrac{20ab^3}{5ab^2}$

40. $3x^3 \div 3$

41. $x + 2x \times y$

42. $3x + 4x^2 \div 2$

43. $\dfrac{5x^5}{2x^3}$

44. $k - 2k$

45. $\dfrac{9x^2}{3x^4}$

46. $1 \times y$

47. $\dfrac{12xy^3}{4x^2y}$

48. $2 \times 2x$

49. $(5x^2)^3$

50. $\dfrac{3x^2}{12x^3}$

51. $(xy)^{-2}$

52. $3x^2 - 7x^2$

53. $\dfrac{8xy^4}{4y^2}$

54. $(2ab^2)^3$

55. $\dfrac{4y}{2xy}$

56. $({}^-6x)^2$

57. $(2ab^5)^2$

58. $({}^-5x^2)^3$

59. $x + 2 - x + 1$

60. $(4x + 2) \div 2$

61. $2g \times 2g^m$

62. $4y^m + 3y^m$

63. $k^p \times 3k$

64. $2y \times x^n$

65. $16k^m \div 8$

66. $2x^n + 2x^n$

67. $x^2 \times 4x^n$

68. $10x^m - 7x^m$

69. $(x^2y)^n$

70. $(5ab^m)^2$

71. $8x^m \div 4x^n$

72. $\left(\dfrac{e}{2f}\right)^2$