Simplify #2 (no division)

1. $x \times x \times x \times x$

2. $x + x - x$

3. $x \times 2x$

4. $4x \times 3x$

5. $a + b + b$

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

7. $8a - a$

8. $7y \times 4y^4$

9. $3y + 3x + y$

10. $1 \times g^2$

11. $3y \times 4x$

12. $4 \times 2y^4$

13. $2x - 4x$

14. $2k - k$

15. $8g \times 4g$

16. $2k \times 3y^2$

17. $2y^3 \times 3y^2$

18. $k - 4k$

19. $3k^2 \times 3x^2$

20. $2f \times 3$

21. $2x^4 \times 4x$

22. $3a \times b^2$

23. $2x^3 \times x$

24. $3x - 3x$

25. $12y^2 \times 3$

26. $4k^3 + 2k^3$

27. $5k^2 \times 4k^3$

28. $2x - 2x$

29. $3x^2 \times x^4$

30. $3x^2 + 4x - x^2$

31. $k \times m^2$

32. $2y - 4y$

33. $2y^3 \times 8y$

34. $7f \times 2g$

35. $2y \times 4y$

36. $k^2 \times {}^-8$

37. $4k^4 \times {}^-3k$

38. $2k^2 \times 3k^3$

39. $8x - 2x$

40. $6k \times 2k^2$

Simplify #2 Answers

Note that addition and multiplication can be in any order, as $2a + b = b + 2a$ and $4ab = 4ba$

1. $x \times x \times x \times x =$ x^4
2. $x + x - x =$ x
3. $x \times 2x =$ $2x^2$
4. $4x \times 3x =$ $12x^2$
5. $a + b + b =$ $a + 2b$
6. $x + x^2 + x^2 =$ $x + 2x^2$
7. $8a - a =$ $7a$
8. $7y \times 4y^4 =$ $28y^5$
9. $3y + 3x + y =$ $4y + 3x$
10. $1 \times g^2 =$ g^2
11. $3y \times 4x =$ $12xy$
12. $4 \times 2y^4 =$ $8y^4$
13. $2x - 4x =$ $-2x$
14. $2k - k =$ k (or $1k$)
15. $8g \times 4g =$ $32g^2$
16. $2k \times 3y^2 =$ $6ky^2$
17. $2y^3 \times 3y^2 =$ $6y^5$
18. $k - 4k =$ $-3k$
19. $3k^2 \times 3x^2 =$ $9k^2x^2$
20. $2f \times 3 =$ $6f$

21. $2x^4 \times 4x =$ $8x^5$
22. $3a \times b^2 =$ $3ab^2$
23. $2x^3 \times x =$ $2x^4$
24. $6x - 3x =$ $3x$
25. $12y^2 \times 3 =$ $36y^2$
26. $4k^3 + 2k^3 =$ $6k^3$
27. $5k^2 \times 4k^3 =$ $20k^5$
28. $2x - 2x =$ 0
29. $3x^2 \times x^4 =$ $3x^6$
30. $3x^2 + 4x - x^2 =$ $2x^2 + 4x$
31. $k \times m^2 =$ km^2
32. $2y - 4y =$ $-2y$
33. $2y^3 \times 8y =$ $16y^4$
34. $7f \times 2g =$ $14fg$
35. $2y \times 4y =$ $8y^2$
36. $k^2 \times 8 =$ $8k^2$
37. $4k^4 \times 3k =$ $12k^5$
38. $2k^2 \times 3k^3 =$ $6k^5$
39. $8x - 2x =$ $6x$
40. $6k \times 2k^2 =$ $12k^3$