



In this worksheet you will practise expanding expressions using the distributive law and multiplying polynomials. Work through each question carefully and show all your working. Remember to simplify your answers fully.

Easy Questions

1. Expand the expression $2(x + 4)$.
2. Expand the expression $3(2x - 5)$.
3. Expand the expression $4(3 + x)$.
4. Expand the expression $-2(2x + 3)$.
5. Expand the expression $-3(5 - x)$.

Intermediate Questions

6. Expand the expression $(x + 2)(x + 3)$.
7. Expand the expression $(2x - 1)(x + 4)$.
8. Expand the expression $(3x + 2)(2x - 5)$.
9. Expand the expression $(x + 4)(2x + 1)$.
10. Expand the expression $(2x + 3)(x - 2)$.
11. Expand the expression $(3x - 4)(2x + 5)$.
12. Expand the expression $(x + 2)(x + 3)(x + 4)$.
13. Expand the expression $(2x - 3)(x + 7)$.
14. Expand the expression $(3x + 1)(2x + 5)$.
15. Expand the expression $(x - 4)(x + 6)$.
16. Expand the expression $(2x + 5)(3x - 1)$.
17. Expand the expression $(x + 2)(3x + 4)$.
18. Expand the expression $(4x - 1)(2x + 3)$.
19. Expand the expression $(2x + 3)(3x + 4)$.
20. Expand the expression $(x + 5)(x^2 + 2x + 1)$.

Hard Questions

21. Expand the expression $(x + 2)(x + 3)(x + 4)(x + 5)$.
22. Expand the expression $(2x - 3)(x + 1)(3x - 2)$.
23. Expand the expression $(x - 1)(x + 2)(x - 3)(x + 4)$.
24. Expand the expression $(3x + 2)(2x - 5)(x + 1)$.
25. Expand the expression $(x + 3)(2x - 1)(x - 4)$.
26. Expand the expression $(2x + 1)(x + 3)(x^2 + 2)$.
27. Expand the expression $(x + 2)(2x + 3)(3x + 4)$.
28. Expand the expression $(x - 2)(x + 3)(2x - 5)(x + 1)$.
29. Expand and simplify the expression $(2x - 1)(x^2 + 3x + 2)$.
30. Expand and simplify the expression $(3x + 1)(2x^2 - x + 4)$.