



This worksheet will help you practise expanding algebraic expressions using the distributive law and multiplying polynomials. Work through the questions carefully and show all your working.

Easy Questions

1. Expand $2(x + 3)$.
2. Expand $-(3x + 4)$.
3. Expand $4(x - 5)$.
4. Expand $5(x + 2y)$.
5. Expand $-2(-x + 7)$.

Intermediate Questions

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

Hard Questions

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