



In this worksheet you will extend your factorisation techniques to handle more complex trinomials. You will practise factorising quadratic expressions with leading coefficients other than one using methods such as the ac method and grouping.

Easy Questions

1. Factorise $2x^2 + 5x + 2$.
2. Factorise $3x^2 + 11x + 6$.
3. Factorise $2x^2 + 7x + 3$.
4. Factorise $4x^2 + 8x + 3$.
5. Factorise $5x^2 + 9x + 2$.

Intermediate Questions

6. Factorise $6x^2 + 13x + 6$.
7. Factorise $6x^2 + 17x + 5$.
8. Factorise $8x^2 - 2x - 3$.
9. Factorise $12x^2 + 17x + 5$.
10. Factorise $6x^2 - 11x + 4$.
11. Factorise $10x^2 + 21x + 11$.
12. Factorise $15x^2 + 14x - 8$.
13. Factorise $4x^2 + 7x - 2$.
14. Factorise $6x^2 + x - 2$.
15. Factorise $14x^2 + 11x - 3$.
16. Factorise $8x^2 + 10x - 3$.
17. Factorise $12x^2 - 5x - 3$.
18. Factorise $10x^2 - 7x + 1$.
19. Factorise $18x^2 + 17x + 4$.
20. Factorise $15x^2 - 14x + 3$.

Hard Questions

21. Factorise $6x^2 + 19x + 10$.

22. Factorise $8x^2 + 19x + 6$.

23. Factorise $12x^2 + 31x + 14$.

24. Factorise $10x^2 + 27x + 12$.

25. Factorise $14x^2 + 37x + 15$.

26. Factorise $12x^2 - 35x + 25$.

27. Factorise $20x^2 + 21x - 5$.

28. Factorise $16x^2 - 7x - 1$.

29. Factorise $18x^2 - 5x - 2$.

30. Factorise $24x^2 + 25x + 6$.