



In this worksheet you will learn how to factorise quadratic equations to find their solutions efficiently.

## Easy Questions

1. Solve  $x^2 + 5x + 6 = 0$  by factorising.
2. Solve  $x^2 - 3x - 10 = 0$  by factorising.
3. Solve  $x^2 + 6x + 9 = 0$  by factorising.
4. Solve  $x^2 - 4 = 0$  by factorising.
5. Solve  $2x^2 + 7x + 3 = 0$  by factorising.

## Intermediate Questions

6. Solve  $x^2 + 8x + 15 = 0$  by factorising.
7. Solve  $3x^2 + 11x + 6 = 0$  by factorising.
8. Solve  $2x^2 - 5x - 3 = 0$  by factorising.
9. Solve  $4x^2 + 12x + 9 = 0$  by factorising.
10. Solve  $5x^2 + 13x + 6 = 0$  by factorising.
11. Solve  $2x^2 + x - 6 = 0$  by factorising.
12. Solve  $6x^2 - x - 2 = 0$  by factorising.
13. Solve  $3x^2 - 2x - 8 = 0$  by factorising.
14. Solve  $4x^2 - 4x - 15 = 0$  by factorising.
15. Solve  $5x^2 - 20x + 15 = 0$  by factorising.
16. Solve  $6x^2 + 5x - 6 = 0$  by factorising.
17. Solve  $8x^2 - 10x - 3 = 0$  by factorising.
18. Solve  $10x^2 + 7x - 12 = 0$  by factorising.
19. Solve  $9x^2 - 30x + 25 = 0$  by factorising.
20. Solve  $2x^2 - 3x - 2 = 0$  by factorising.

## Hard Questions

21. Solve  $6x^2 + 13x - 5 = 0$  by factorising.
22. Solve  $4x^2 + 11x + 6 = 0$  by factorising.
23. Solve  $3x^2 - 14x + 8 = 0$  by factorising.
24. Solve  $5x^2 + 2x - 3 = 0$  by factorising.
25. Solve  $6x^2 - x - 15 = 0$  by factorising.
26. Solve  $8x^2 + x - 3 = 0$  by factorising.
27. Solve  $7x^2 + 5x - 2 = 0$  by factorising.
28. Solve  $9x^2 - 2x - 8 = 0$  by factorising.
29. Solve  $10x^2 - 7x - 12 = 0$  by factorising.
30. Solve  $12x^2 + 5x - 7 = 0$  by factorising.