

EXERCISES

Solve each quadratic equation.

1. $x^2 - 4 = 0$
2. $x^2 + 4 = 0$
3. $(x - 2)^2 = 4$
4. $(x + 2)^2 = 4$
5. $(x + 2)^2 = 6$
6. $(y - 4)^2 - 12 = 0$
7. $(t + 5)^2 - 18 = 0$
8. $(x + 2)^2 = -6$
9. $(y - 4)^2 + 12 = 0$
10. $3x^2 - x - 4 = 0$
11. $6x^2 - 3x - 4 = 0$
12. $12x^2 + 11x - 15 = 0$
13. $3x^2 - 7x + 4 = 0$
14. $9x^2 - 9x - 4 = 0$
15. $x^2 - 2x - 4 = 0$
16. $y^2 - 7y + 10 = 0$
17. $x^2 - 2x + 4 = 0$
18. $y^2 - 7y - 8 = 0$
19. $3x^2 + x - 4 = 0$
20. $9x^2 - 8x - 4 = 0$
21. $t^2 + 4t + 8 = 0$
22. $t^2 + 4t - 9 = 0$
23. $3x^2 + 2x + 1 = 0$
24. $3x^2 - 2x - 2 = 0$
25. $x^4 + 3x^2 - 10 = 0$
26. $a^4 - a^2 - 20 = 0$
27. $3x^3 - 5x^2 - 2x = 0$
28. $3x^3 - 2x^2 - 2x = 0$
29. $x^8 - 5x^4 + 4 = 0$
30. $x^8 - 5x^4 - 24 = 0$
31. $2v(v + 2) = 3(v + 4)$
32. $2v(v - 2) = 3(v - 4)$
33. $x^2 - 5 = 4(x - 1)$
34. $\sqrt{2}x^2 - 2x + 2\sqrt{2} = 0$
35. $\sqrt{3}x^2 - 3x - 2\sqrt{3} = 0$
36. $p^2 - \sqrt{2}p + 5 = 0$
37. $\frac{x^2}{2} + \frac{x}{4} = 3$
38. $\frac{x^2}{2} - 1 = \frac{x}{3}$
39. $\frac{x^2}{2} + \frac{3x}{4} = 1$
40. $\frac{1}{t+3} + \frac{2}{t-3} = 4$
41. $\frac{1}{t+3} - \frac{2}{t-3} = 4$
42. $\frac{1}{x-1} + \frac{2}{x+1} = 2$
43. $\frac{1}{x+3} - \frac{2}{x-3} = \frac{x^2}{x^2 - 9}$
44. $\frac{2}{x-1} - \frac{x}{x-2} = \frac{1}{x^2 - 3x + 2}$
45. $\frac{1}{x} + \frac{2}{x^2} = \frac{3}{x^3}$
46. $2t - \sqrt{t} - 6 = 0$
47. $\sqrt{x} + 2x - 3 = 0$
48. $2x + 5\sqrt{x} - 3 = 0$