

Solve each radical equation.

1. $\sqrt{2x+1} = 3$

2. $\sqrt{2-y} + 1 = 5$

3. $5 - \sqrt{2k} = 3$

4. $9 - \sqrt{t+2} = 5$

5. $3 - \sqrt{x+1} = 0$

6. $\sqrt[3]{r} = 2$

7. $\sqrt{x} - 3 = 5$

8. $3 - \sqrt{y+3} = 0$

9. $4 - \sqrt{x+1} = 5$

10. $5 - \sqrt{x+3} = 3$

11. $t = \sqrt{6t-9}$

12. $t = 2\sqrt{t-1}$

13. $x + 2\sqrt{x+1} = 7$

14. $x = \sqrt{6x+18} - 3$

15. $x + 2 = \sqrt{2x+3}$

16. $3\sqrt{x-2} + 2 = x$

17. $x + 3\sqrt{x-2} = 12$

18. $a - 4 = 2\sqrt{a-5}$

19. $\sqrt{x^2+3x-2} - x = 1$

20. $x - 1 + \sqrt{x^2+3} = 0$

21. $\sqrt{x^2-3x-1} = 3$

22. $\sqrt{x} + \sqrt{x-7} = 7$

23. $2 = \sqrt{x-5} - \sqrt{x+16}$

24. $\sqrt{x} + \sqrt{x+11} = 11$

25. $\sqrt{x+3} + \sqrt{x} = 5$

26. $\sqrt{x+1} = 2 - \sqrt{x}$

27. $3\sqrt{c} - 1 = \sqrt{c} + 1$

28. $\sqrt{m+10} - \sqrt{m-6} = 2$

29. $\sqrt{2x+4} = 3 - \sqrt{2x}$

30. $2\sqrt{3w-5} - 3\sqrt{w+1} = 0$

31. $\sqrt{4s+3} = 2\sqrt{s-1} + 1$

32. $\sqrt{x} - \sqrt{x+8} = 8$

33. $\sqrt{3+x} + \sqrt{x} = \frac{6}{\sqrt{3+x}}$

34. $\frac{5}{\sqrt{x-1}} + \frac{\sqrt{x+4}}{2} = 2\sqrt{x-1}$

35. $\sqrt{x+7} = 2 - \sqrt{x-5}$

36. $2\sqrt{x+1} - \sqrt{2x} = \sqrt{x-4}$

37. $2\sqrt{x} - \sqrt{4x-22} = \sqrt{2}$

38. $\sqrt{x+9} - \sqrt{x+2} = \sqrt{4x-27}$