

Solve each equation and check your solutions.

1. $\sqrt{x+6} = 3$

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

3. $2\sqrt{x+5} = 6$

4. $\sqrt[3]{y-7} = 4$

5. $\sqrt{x-9} + 6 = 3$

6. $\sqrt[4]{3x} - 2 = 0$

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

8. $16 = 8 + \sqrt{x}$

$$9. \sqrt{2x-3} = \sqrt{9-x}$$

$$10. \sqrt{2x-7} = \sqrt{x+2}$$

$$11. \sqrt[3]{5x-3} + 8 = 6$$

$$12. \sqrt{x^2 - 6x + 9} - 5 = 2$$

$$13. 2 = \sqrt{x^2 - 3x - 18} - 4$$

$$14. \sqrt{x^2 - 2x + 1} - 2 = 3$$

$$15. \sqrt{x^2 + 4x - 8} + 3 = 5$$

$$16. \sqrt{x + 5} - \sqrt{x} = 1$$

$$17. \sqrt{x - 13} + \sqrt{x + 2} = 3$$

$$18. \sqrt{x + 10} + \sqrt{x - 6} = 8$$

$$19. \sqrt{x + 95} - \sqrt{x - 1} = 6$$

$$20. \sqrt{x - 6} - \sqrt{x} = 3$$