

Practice

Solving Equations Containing Radicals

Solve each equation. Be sure to check for extraneous solutions.

1. $7x\sqrt{3} - 5 = 0$

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

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

4. $\sqrt{x+8} - 5 = 0$

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

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

7. $\sqrt{8n-5} - 1 = 2$

8. $\sqrt{1-4t} - 8 = -6$

9. $\sqrt[4]{7v-2} + 12 = 7$

10. $\sqrt[3]{6u-5} + 2 = -3$

11. $\sqrt{6x-4} = \sqrt{2x+10}$

12. $\sqrt{9u-4} = \sqrt{7u-20}$

13. $\sqrt{k+9} - \sqrt{k} = \sqrt{3}$

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

15. $\sqrt{x+2} - 7 = \sqrt{x+9}$

16. $\sqrt{4x^2 - 3x + 2} - 2x - 5 = 0$