

Polynomial Functions – Radical Equations and Inequalities 2

Solve each equation. Check your solution.

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

2. $\sqrt{1-4t} = 2$

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

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

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

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

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

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

Solve each inequality. Check your solution.

9. $\sqrt{x+4} \leq 6$

10. $\sqrt{2x-7} \geq 5$

11. $\sqrt[3]{3x-8} \geq 1$

12. $\sqrt[4]{5x-9} \leq 2$