

5-6 Skills Practice

Solving Radical Equations

Solve each equation.

1. $\sqrt{x} = 5$

2. $\sqrt{x} + 3 = 7$

3. $18 - 3y^{\frac{1}{2}} = 25$

4. $\sqrt[3]{2w} = 4$

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

6. $2 + \sqrt{3p + 7} = 6$

7. $(t - 3)^{\frac{1}{3}} = 2$

8. $\sqrt{3z - 2} = \sqrt{z - 4}$

Solve each inequality.

9. $4\sqrt{x + 1} \geq 12$

10. $5 + \sqrt{c - 3} \leq 6$

11. $-2 + \sqrt{3x + 3} < 7$

12. $\sqrt{y + 4} - 3 \geq 3$