

6-7: Solving Radical Equations and Inequalities (Practice)**Solve each equation.**

1. $\sqrt{x} = 8$

6. $18 + 7h^{\frac{1}{2}} = 12$

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

7. $6 + \sqrt[3]{q-4} = 9$

3. $\sqrt{2p} + 3 = 10$

8. $\sqrt[4]{y-9} + 4 = 0$

4. $4\sqrt{3h} - 2 = 0$

9. $\sqrt{2m-6} - 16 = 0$

5. $c^{\frac{1}{2}} + 6 = 9$

10. $\sqrt[3]{4m+1} - 2 = 2$

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

6-7: Solving Radical Equations and Inequalities (Practice)

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

Solve each inequality.

17. $3\sqrt{a} \geq 12$

13. $(7v-2)^{\frac{1}{4}} + 12 = 7$

18. $\sqrt{z+5} + 4 \leq 13$

14. $(3g+1)^{\frac{1}{2}} - 6 = 4$

19. $8 + \sqrt{2q} \leq 5$

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

16. $\sqrt{2x+5} = \sqrt{2x+1}$