

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Basic Skills**  
**Solving Radical Equations**

**Solve the equation. Check for extraneous solution.**

1.  $\sqrt{x} + 3 = 12$

2.  $\sqrt{x} + 6 = 0$

3.  $\sqrt{2x} = 0$

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

5.  $\sqrt{2x-5} = 13$

6.  $\sqrt{2x} + 1 = 0$

7.  $\sqrt{8x+1} = 5$

8.  $\sqrt{4x+1} - 3 = 0$

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

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

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

12.  $x = \sqrt{5x - 4}$