

**Algebra 1**  
**10.3 Worksheet #1**

Name \_\_\_\_\_

Solve the equation. Check for extraneous solutions.

1. $\sqrt{x} - 9 = 0$	2. $\sqrt{x} + 8 = 0$
3. $\sqrt{x} + 15 = 18$	4. $\sqrt{6x} - 13 = 23$
5. $\sqrt{4x+1} = 5$	6. $\sqrt{6x-2} = 10$
7. $\sqrt{9-x} - 10 = 14$	8. $10 = 4 + \sqrt{5x+11}$

$$9. x = \sqrt{35 + 2x}$$

$$10. x = \sqrt{30 - x}$$

$$11. x = \sqrt{200 - 35x}$$

$$12. x = \sqrt{4x + 45}$$