

Name: _____

Unit 11: Radicals

Date: _____ Bell: _____

Homework 7: Radical Equations (Day 1)

**Directions:** Solve each equation. Be sure to check for extraneous solutions.

1. $\sqrt{b} = 4$

2. $\sqrt{\frac{x}{6}} = 9$

3. $-3 = -11 + \sqrt{2y}$

4. $9\sqrt{k-3} = 72$

5. $2 = 9 + \sqrt{w+1}$

6. $3\sqrt{4p-8} + 7 = 19$

7. $\sqrt{v} = \sqrt{9-2v}$

8. $\sqrt{29-2n} = \sqrt{n-4}$

9. $\sqrt{2a+31} = \sqrt{-11-a}$

10. $\sqrt{26-3x} = \sqrt{5x-30}$