

## 7.5 HW Solving Radical Equations

Period \_\_\_\_\_

Solve each equation. Remember to check for extraneous solutions.

1)  $\sqrt{v} - 6$

$$v = 36$$

2)  $10 - \sqrt{x}$

$$x = 100$$

3)  $\sqrt{n} + 9 = 13$

$$\sqrt{n} + 9 - 9 = 13 - 9$$

$$\sqrt{n} = 4$$

$$n = 16$$

4)  $2 = -5 + \sqrt{49n}$

$$-5 + \sqrt{49n} + 5 = 2 + 5$$

$$\sqrt{49n} = 7$$

$$n = 1$$

5)  $-9 + 4\sqrt{x-1} = 27$

$$4\sqrt{x-1} = 36$$

$$4\sqrt{\frac{x-1}{4}} = \frac{36}{4}$$

$$x = 82$$

6)  $-22 = 6\sqrt{\frac{k}{8}} - 4$

No solution

7)  $\sqrt{2v-152} = \sqrt{\frac{v}{10}}$

$$2v - 152 = \frac{v}{10}$$

$$v = 80$$

8)  $\sqrt{x-6} = \sqrt{16-x}$

$$x - 6 = 16 - x$$

$$x = 11$$

9)  $\sqrt{4x-1} = \sqrt{3x+1}$

$$4x - 1 = 3x + 1$$

$$x = 2$$

10)  $\sqrt{2x+8} = \sqrt{-1-x}$

$$2x + 8 = -1 - x$$

$$x = -3$$

# 1simplifying Radical Expressions Answer Key

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## **1simplifying Radical Expressions Answer Key:**

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