

## 7.5 HW Solving Radical Equations

Solve each equation. Remember to check for extraneous solutions.

1)  $\sqrt{v} = 6$

$v = 36$

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

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

$\sqrt{n} = 4$

$n = 16$

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

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

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

$x = 82$

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

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

$v = 80$

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

$4x-1 = 3x+1$

$x = 2$

2)  $10 = \sqrt{x}$

$x = 100$

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

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

$\sqrt{49n} = 7$

$n = 1$

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

**No Solution**

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

$x-6 = 16-x$

$x = 11$

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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