Name:

Date:

Solving Radical Equations

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{m+4} = \sqrt{2m-8}$

2) $\sqrt{2m+3} = \sqrt{12-m}$

3) $\sqrt{x-6} = 3$

4) $\sqrt{x} = 5$

5) $\sqrt{5m-1} = \sqrt{3m+11}$

6) $\sqrt{6-5x} = 6$

7) $4\sqrt{16x} = 32$

8) $-6\sqrt{3x-5} = -12$

9) $\sqrt{6m+2} = \sqrt{-3m+11}$

10) $\sqrt{6x^2+12x+5} = \sqrt{5}$

11) $\sqrt{7x^2+8x+8} = \sqrt{6x^2+10x+7}$

12) $\sqrt{3x^2+2x-48} = \sqrt{2x^2}$

13) $\sqrt{6k+17} = \sqrt{5}$

14) $5\sqrt{25x} = 100$

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QUIZ ?

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Solving Radical Equations

Name:

Date:

Answers

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{m+4} = \sqrt{2m-8}$
$\Rightarrow m = 12$

2) $\sqrt{2m+3} = \sqrt{12-m}$
$\Rightarrow m = 3$

3) $\sqrt{x-6} = 3$
$\Rightarrow x = 15$

4) $\sqrt{x} = 5$
$\Rightarrow x = 25$

5) $\sqrt{5m-1} = \sqrt{3m+11}$
$\Rightarrow m = 6$

6) $\sqrt{6-5x} = 6$
$\Rightarrow x = -6$

7) $4\sqrt{16x} = 32$
$\Rightarrow x = 4$

8) $-6\sqrt{3x-5} = -12$
$\Rightarrow x = 3$

9) $\sqrt{6m+2} = \sqrt{-3m+11}$
$\Rightarrow m = 1$

10) $\sqrt{6x^2+12x+5} = \sqrt{5}$
$\Rightarrow x = 0, x = -2$

11) $\sqrt{7x^2+8x+8} = \sqrt{6x^2+10x+7}$
$\Rightarrow x = 1$

12) $\sqrt{3x^2+2x-48} = \sqrt{2x^2}$
$\Rightarrow x = 6, x = -8$

13) $\sqrt{6k+17} = \sqrt{5}$
$k = -2$

14) $5\sqrt{25x} = 100$
$\Rightarrow x = 16$

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