



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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Answers



Solve each equation. Remember to check for extraneous solutions.

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

$$\Rightarrow m = 12$$

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

$$\Rightarrow m = 3$$

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

$$\Rightarrow x = 15$$

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

$$\Rightarrow x = 25$$

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

$$\Rightarrow m = 6$$

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

$$\Rightarrow x = -6$$

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

$$\Rightarrow x = 4$$

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

$$\Rightarrow x = 3$$

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

$$\Rightarrow m = 1$$

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

$$\Rightarrow x = 0, x = -2$$

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

$$\Rightarrow x = 1$$

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

$$\Rightarrow x = 6, x = -8$$

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

$$k = -2$$

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

$$\Rightarrow x = 16$$

