

Solve radical equations

Name _____

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Date _____

Solve each equation. Remember to check for extraneous solutions.

1) $-8 = -8\sqrt{\frac{k}{10}}$

2) $\sqrt{-7-x} + 3 = \sqrt{8-x}$

3) $\sqrt{3m-16} = \sqrt{8-m}$

4) $-1 + \sqrt{2n+7} = \sqrt{3n+1}$

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

6) $\sqrt{4p} = 2$

7) $\sqrt{9-2n} = \sqrt{3n-1}$

8) $-5 + \sqrt{2m+9} = \sqrt{8-m}$

$$9) \sqrt{1-3x} = \sqrt{-1-2x} + 1$$

$$10) \sqrt{2x+2} = \sqrt{14-x}$$

$$11) \sqrt{25x} = 5$$

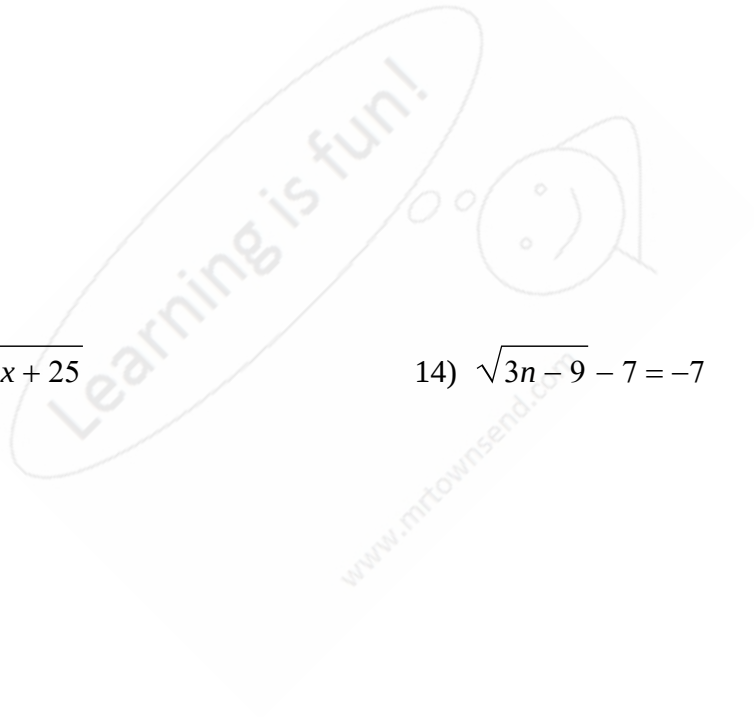
$$12) 2\sqrt{-2-6x} = 8$$

$$13) \sqrt{-15-2x} = \sqrt{2x+25}$$

$$14) \sqrt{3n-9} - 7 = -7$$

$$15) \sqrt{12-3v} = 6$$

$$16) 3 = \sqrt{2x+1}$$



Answers to Solve radical equations

1) $\{10\}$

5) $\{2\}$

9) $\{-5, -1\}$

13) $\{-10\}$

2) $\{-8\}$

6) $\{1\}$

10) $\{4\}$

14) $\{3\}$

3) $\{6\}$

7) $\{2\}$

11) $\{1\}$

15) $\{-8\}$

4) $\{1\}$

8) $\{8\}$

12) $\{-3\}$

16) $\{4\}$

