

Solve radical equations

Name _____

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Date _____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{2p+6} = \sqrt{-1-5p}$

2) $\sqrt{r-5} = \sqrt{28-2r}$

3) $\sqrt{3-k} = \sqrt{1-2k}$

4) $49 = 7\sqrt{n+4}$

5) $\sqrt{r-4} = \sqrt{10-r}$

6) $\sqrt{\frac{x}{10}} = \sqrt{11-x}$

7) $1 = -2 + \sqrt{\frac{p}{5}}$

8) $\sqrt{26x-4} + 4 = 14$

$$9) 5 = \sqrt{v - 10} + 3$$

$$10) \sqrt{2r - 10} = \sqrt{3r - 20}$$

$$11) \sqrt{n + 2} = \sqrt{26 - 2n}$$

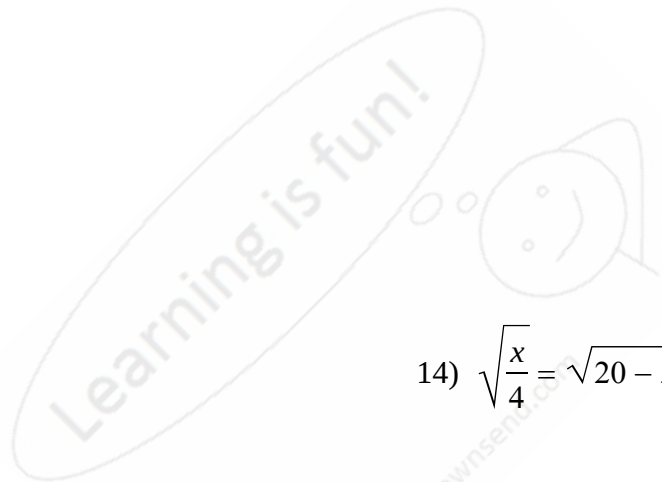
$$12) -4\sqrt{n - 10} = -12$$

$$13) 10 = \sqrt{25x}$$

$$14) \sqrt{\frac{x}{4}} = \sqrt{20 - x}$$

$$15) -12 = -2\sqrt{17x + 2}$$

$$16) \sqrt{n + 7} = 2$$



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Answers to Solve radical equations

1) $\{-1\}$

5) $\{7\}$

9) $\{14\}$

13) $\{4\}$

2) $\{11\}$

6) $\{10\}$

10) $\{10\}$

14) $\{16\}$

3) $\{-2\}$

7) $\{45\}$

11) $\{8\}$

15) $\{2\}$

4) $\{45\}$

8) $\{4\}$

12) $\{19\}$

16) $\{-3\}$

