

Solving Radical Equations

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{\frac{k}{3}} = 4$

2) $\sqrt{3x-2} = \sqrt{x}$

3) $\sqrt{2x} = 2$

4) $1 = \sqrt{v-1}$

5) $\sqrt{b-5} = 5$

6) $\sqrt{r} = \sqrt{2r-1}$

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

8) $b+2 = \sqrt{2b+3}$

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

10) $\sqrt{x} = 1$

$$11) x - 1 = \sqrt{10 - 2x}$$

$$12) \sqrt{v - 1} = \sqrt{3 - v}$$

$$13) \sqrt{2x - 9} = \sqrt{x - 4}$$

$$14) \sqrt{k} = 3$$

$$15) \sqrt{2x} = x$$

$$16) \sqrt{9 - n} = \sqrt{n - 3}$$

$$17) n - 1 = \sqrt{2n - 3}$$

$$18) x^{\frac{1}{2}} = (3x - 10)^{\frac{1}{2}}$$

$$19) n = \sqrt{5n}$$

$$20) \sqrt{4n} = \sqrt{3n + 1}$$

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{48}

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{2}

5) $\sqrt{b-5} = 5$

{30}

6) $\sqrt{r} = \sqrt{2r-1}$

{1}

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

{12}

8) $b+2 = \sqrt{2b+3}$

{-1}

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

{5}

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{0, 2}

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{6}

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$$18) x^{\frac{1}{2}} = (3x - 10)^{\frac{1}{2}}$$

{5}

$$19) n = \sqrt{5n}$$

{0, 5}

$$20) \sqrt{4n} = \sqrt{3n + 1}$$

{1}