

Radical Equations - Part 2

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{110 - n} = n$

2) $p = \sqrt{2 - p}$

3) $\sqrt{30 - x} = x$

4) $x = \sqrt{8x}$

5) $x = \sqrt{42 - x}$

6) $\sqrt{12 - r} = r$

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

8) $\sqrt{5v} = v$

9) $r = \sqrt{10r}$

10) $m = \sqrt{56 - m}$

11) $b = \sqrt{-4 + 4b}$

12) $r = \sqrt{8r}$

13) $\sqrt{-16 + 10a} = a$

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

$$15) \sqrt{-45 + 14n} = n$$

$$16) x = \sqrt{110 - x}$$

$$17) \sqrt{9n} = n$$

$$18) x = \sqrt{40 - 3x}$$

$$19) \sqrt{90 - n} = n$$

$$20) x = \sqrt{-70 + 17x}$$

$$21) \sqrt{4n + 8} = n + 3$$

$$22) -n + \sqrt{6n + 19} = 2$$

$$23) 4 + \sqrt{-3m + 10} = m$$

$$24) x - 5 = \sqrt{x + 1}$$

$$25) n - 7 = \sqrt{3n - 21}$$

$$26) b - 6 = \sqrt{18 - 3b}$$

$$27) -3 + \sqrt{m + 59} = m$$

$$28) \sqrt{7a - 54} - a = -6$$

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{10}

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{1}

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{0, 8}

5) $x = \sqrt{42 - x}$

{6}

6) $\sqrt{12 - r} = r$

{3}

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

{0, 4}

8) $\sqrt{5v} = v$

{0, 5}

9) $r = \sqrt{10r}$

{0, 10}

10) $m = \sqrt{56 - m}$

{7}

11) $b = \sqrt{-4 + 4b}$

{2}

12) $r = \sqrt{8r}$

{0, 8}

13) $\sqrt{-16 + 10a} = a$

{2, 8}

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

No solution.

$$15) \sqrt{-45 + 14n} = n$$

{5, 9}

$$16) x = \sqrt{110 - x}$$

{10}

$$17) \sqrt{9n} = n$$

{0, 9}

$$18) x = \sqrt{40 - 3x}$$

{5}

$$19) \sqrt{90 - n} = n$$

{9}

$$20) x = \sqrt{-70 + 17x}$$

{7, 10}

$$21) \sqrt{4n + 8} = n + 3$$

{-1}

$$22) -n + \sqrt{6n + 19} = 2$$

{5}

$$23) 4 + \sqrt{-3m + 10} = m$$

No solution.

$$24) x - 5 = \sqrt{x + 1}$$

{8}

$$25) n - 7 = \sqrt{3n - 21}$$

{10, 7}

$$26) b - 6 = \sqrt{18 - 3b}$$

{6}

$$27) -3 + \sqrt{m + 59} = m$$

{5}

$$28) \sqrt{7a - 54} - a = -6$$

{9, 10}