

Solving Radical Equations

Solve each equation. Remember to check for extraneous solutions.

1) $-7\sqrt{32x} = -56$

2) $\sqrt{26v - 1} = 5$

3) $-12 = -6\sqrt{5k - 1}$

4) $-6 = -6\sqrt{-1 - 2n}$

5) $\sqrt{k - 8} = \sqrt{14 - k}$

6) $\sqrt{9k + 1} = \sqrt{11 - k}$

7) $\sqrt{x - 1} = \sqrt{7 - x}$

8) $\sqrt{\frac{a}{4}} = \sqrt{30 - a}$

9) $n - 8 = \sqrt{46 - 5n}$

10) $n - 4 = \sqrt{5n - 14}$

11) $b + 1 = \sqrt{61 - 2b}$

12) $\sqrt{6m - 38} + 5 = m$

Answers to Solving Radical Equations (ID: 1)

- 1) {2}
- 5) {11}
- 9) {9}

- 2) {1}
- 6) {1}
- 10) {10}

- 3) {1}
- 7) {4}
- 11) {6}

- 4) {-1}
- 8) {24}
- 12) {7, 9}