

Solving Radical Equations #1

Solve each equation. Remember to check for extraneous solutions.

1) $-18 = -6\sqrt{x-3}$

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

3) $\sqrt{v-6} = 10$

4) $10 = \sqrt{a-10}$

5) $\sqrt{x+9} = 7$

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

7) $\sqrt{90-x} = x$

8) $\sqrt{-1-2x} = x$

9) $\sqrt{32+4a} = a$

10) $\sqrt{7a} = a$

$$11) x - 6 = \sqrt{4x - 27}$$

$$12) \sqrt{6p + 64} = p + 4$$

$$13) -9 = -v + \sqrt{27 - 3v}$$

$$14) a = -1 + \sqrt{5 - a}$$

$$15) \sqrt{4x + 52} = x + 5$$

$$16) \sqrt{55 - 6b} = b - 10$$

$$17) \sqrt{5x - 11} = x - 1$$

$$18) -6 = \sqrt{7a - 54} - a$$

$$19) b - 6 = \sqrt{4b - 27}$$

$$20) \sqrt{2x - 7} = x - 5$$