

6.6 Worksheet Radical Equations

Solve each equation. Remember to check for extraneous solutions.

1) $4 = \sqrt{n-5}$

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

3) $0 = \sqrt{\frac{n}{5}}$

4) $4 = \sqrt{\frac{n}{5}}$

5) $8 = 3 + \sqrt{25x}$

6) $-1 = -4 + \sqrt{\frac{v}{2}}$

7) $1 = \sqrt{-1-2v}$

8) $3 + \sqrt{2k+5} = 4$

9) $n = \sqrt{12-n}$

10) $n = \sqrt{-16+8n}$

$$11) -2 + \sqrt{2m+3} = m$$

$$12) 6 + \sqrt{11-2n} = n$$

$$13) \sqrt{3x} = x$$

$$14) 3 + \sqrt{b-1} = b$$

$$15) a = \sqrt{30-a}$$

$$16) n = \sqrt{6-n}$$

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

$$18) 4 = 1 + \sqrt{n-5}$$

$$19) \sqrt{9-2n} = \sqrt{2n-3}$$

$$20) \sqrt{2-p} = \sqrt{-2-2p}$$