

5-2 Solving Radical Equations

Solve each equation. Remember to check for extraneous solutions.

1) $2 = \sqrt{a+6} - 2$

2) $\sqrt{21v+1} = 8$

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

4) $30 = 10\sqrt{2b-11}$

5) $3 = -3 + \sqrt{-2-19x}$

6) $8 + \sqrt{17x-4} = 16$

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

8) $\sqrt{2b+9} = \sqrt{-3-b}$

9) $\sqrt{3n-5} = \sqrt{2n-1}$

10) $\sqrt{17-n} = \sqrt{3n-23}$

$$11) x = \sqrt{90 - x}$$

$$12) \sqrt{42 - m} = m$$

$$13) \sqrt{12 - n} = n$$

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

$$15) a = \sqrt{56 - a}$$

$$16) m = \sqrt{42 - 6m} + 7$$

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

$$18) 6 = -x + \sqrt{6x + 76}$$

$$19) -5 = -k + \sqrt{35 - 7k}$$

$$20) \sqrt{5p - 29} = p - 5$$