

## Solving Radical Equations

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation. Remember to check for extraneous solutions.**

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

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

3)  $8 = \sqrt{\frac{n}{5}}$

4)  $\sqrt{9-x} = \sqrt{17-2x}$

5)  $-7 + \sqrt{-1-a} = -5$

6)  $6\sqrt{3k+22} = 12$

7)  $6 = \sqrt{-1-25x} - 1$

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

9)  $\sqrt{20-x} = x$

10)  $x = \sqrt{-14+9x}$

$$11) \sqrt{a-5} = \sqrt{9-a}$$

$$12) -2 = \sqrt{-9-a} - 3$$

$$13) \sqrt{10-2n} = \sqrt{7n+1}$$

$$14) \sqrt{40+3n} = n$$

$$15) \sqrt{19-3b} = b-5$$

$$16) \sqrt{56-r} = r$$

$$17) -8 = -b + \sqrt{-6b+48}$$

$$18) \sqrt{3k+16} = k+2$$

$$19) \sqrt{-40+14r} = r$$

$$20) \sqrt{72-p} = p$$