

Equations with Radicals

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{a-4} = 2$

2) $\sqrt{m} = 8$

3) $6 = \sqrt{k-9}$

4) $0 = \sqrt{n-9}$

5) $\sqrt{1-6n} = 5$

6) $\sqrt{95-n} = 10$

7) $\sqrt{16-b} = \sqrt{b-2}$

8) $\sqrt{\frac{n}{4}} = \sqrt{3n-44}$

9) $\sqrt{2b} = \sqrt{3b-4}$

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

$$11) \sqrt{r+10} + 9 = 14$$

$$12) 4 = \sqrt{\frac{n}{5}} + 3$$

$$13) 8 = 5 + \sqrt{9n}$$

$$14) 2 + \sqrt{n+1} = 12$$

$$15) \sqrt{k+6} = \sqrt{3k+16}$$

$$16) \sqrt{25-2k} = \sqrt{2k-7}$$

Equations with Radicals

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{a-4} = 2$
 $\{8\}$

2) $\sqrt{m} = 8$
 $\{64\}$

3) $6 = \sqrt{k-9}$
 $\{45\}$

4) $0 = \sqrt{n-9}$
 $\{9\}$

5) $\sqrt{1-6n} = 5$
 $\{-4\}$

6) $\sqrt{95-n} = 10$
 $\{-5\}$

7) $\sqrt{16-b} = \sqrt{b-2}$
 $\{9\}$

8) $\sqrt{\frac{n}{4}} = \sqrt{3n-44}$
 $\{16\}$

9) $\sqrt{2b} = \sqrt{3b-4}$
 $\{4\}$

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

$$11) \sqrt{r+10} + 9 = 14$$

$$\{15\}$$

$$12) 4 = \sqrt{\frac{n}{5}} + 3$$

$$\{5\}$$

$$13) 8 = 5 + \sqrt{9n}$$

$$\{1\}$$

$$14) 2 + \sqrt{n+1} = 12$$

$$\{99\}$$

$$15) \sqrt{k+6} = \sqrt{3k+16}$$

$$\{-5\}$$

$$16) \sqrt{25-2k} = \sqrt{2k-7}$$

$$\{8\}$$