

## Assignment

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

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

1)  $\sqrt{k-6} - 6 = 0$

2)  $7 = \sqrt{-2 - 6m} + 3$

3)  $-4 = -4\sqrt{x-9}$

4)  $2 = \sqrt{b+9}$

5)  $8\sqrt{2x+7} = 40$

6)  $8 = 8\sqrt{\frac{x}{7}}$

7)  $\sqrt{2a} = \sqrt{12-a}$

8)  $\sqrt{2v+9} = \sqrt{3v+13}$

9)  $\sqrt{16-2m} = \sqrt{2m-8}$

10)  $\sqrt{2x+6} = \sqrt{4x+2}$

11)  $\sqrt{2r+16} = \sqrt{-5-r}$

12)  $\sqrt{22-2r} = \sqrt{3r-18}$

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

14)  $\sqrt{-18+11n} = n$

15)  $\sqrt{-63+16x} = x$

16)  $\sqrt{-50+15b} = b$

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

18)  $n = \sqrt{-12+8n}$

## Assignment

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

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

1)  $\sqrt{k-6} - 6 = 0$   
{42}

2)  $7 = \sqrt{-2-6m} + 3$   
{-3}

3)  $-4 = -4\sqrt{x-9}$   
{10}

4)  $2 = \sqrt{b+9}$   
{-5}

5)  $8\sqrt{2x+7} = 40$   
{9}

6)  $8 = 8\sqrt{\frac{x}{7}}$   
{7}

7)  $\sqrt{2a} = \sqrt{12-a}$   
{4}

8)  $\sqrt{2v+9} = \sqrt{3v+13}$   
{-4}

9)  $\sqrt{16-2m} = \sqrt{2m-8}$   
{6}

10)  $\sqrt{2x+6} = \sqrt{4x+2}$   
{2}

11)  $\sqrt{2r+16} = \sqrt{-5-r}$   
{-7}

12)  $\sqrt{22-2r} = \sqrt{3r-18}$   
{8}

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

14)  $\sqrt{-18+11n} = n$   
{2, 9}

15)  $\sqrt{-63+16x} = x$   
{7, 9}

16)  $\sqrt{-50+15b} = b$   
{5, 10}

17)  $\sqrt{6x} = x$   
{0, 6}

18)  $n = \sqrt{-12+8n}$   
{6, 2}