

Name \_\_\_\_\_

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

## Review of Equations

Solve each equation.

1)  $3n + 4n = -14$

2)  $9 = -7m + 1 - 6$

3)  $-24 = 5r + 3r$

4)  $-6x - 6x = 12$

5)  $-36 = 6(2 - 8n)$

6)  $-6 + 5(-1 - b) = 19$

7)  $-14 = -(-2x + 2)$

8)  $51 = 7(-1 + 2v) + 2$

9)  $7(1 + 5n) + 6(1 + 4n) = 13$

10)  $73 = -6(k - 7) + 6(k + 5)$

11)  $-6(3 - 3a) - 8(6a + 5) = 32$

12)  $-9 + 4r = 4r - 3 - 6$

13)  $6x - 2x + 8 = x + 5$

14)  $4n + 5n + 15 = 5n + 7n$

$$15) 4m + 3 = 13 - m$$

$$16) 5p + 5 = 4 + 4p$$

$$17) 8 + 6x = 8 + 8x + 7 + 3$$

$$18) -5b + 24 = -8(b - 6) + 6b$$

$$19) 3(7r - 7) = -6 + 6r$$

$$20) -(1 - 5x) + 8 = -17 + 2x$$

$$21) -5n - 4(-7 - 4n) = 36 + 7n$$

$$22) 2(-7a + 6) = -16 - 7a$$

$$23) -8(2 + 7n) = -6n + 34$$

$$24) -7(x + 3) = -2(x + 3) - 5x$$

$$25) -4(v - 2) = -4(v - 8) - 8v$$

$$26) 2(x + 8) = -3(x + 3)$$

$$27) -7(-1 + 3a) = 5(3 - 5a)$$

$$28) 4k + 7(-4 - 2k) = -2(k - 2)$$

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Simplify.

1.  $\sqrt{96}$

2.  $\sqrt{216}$

3.  $\sqrt{98}$

4.  $\sqrt{18}$

5.  $\sqrt{72}$

6.  $\sqrt{144}$

7.  $9\sqrt{245}$

8.  $12\sqrt{1764}$

9.  $-4\sqrt{3} + 3\sqrt{3}$

10.  $-\sqrt{6} - 2\sqrt{6}$

11.  $-3\sqrt{45} - \sqrt{5} + 2\sqrt{2}$

12.  $\sqrt{5}\sqrt{5}$

13.  $\sqrt{5}\sqrt{12}$

14.  $\sqrt{6} \cdot \sqrt{9}$

15.  $\sqrt{15}(\sqrt{3} + 2)$

16.  $\sqrt{\frac{3}{48}}$

17.  $\frac{2\sqrt{3}}{2\sqrt{12}}$

18.  $\frac{4}{3\sqrt{5}}$