

**Algebra I Worksheet #6 Unit 1 page 1** \_\_\_\_\_

**Find the value of each expression.**

1.  $5(4 + 3) =$  \_\_\_\_\_      2.  $5 \cdot 4 + 3 =$  \_\_\_\_\_      3.  $5 \cdot 4 + 5 \cdot 3 =$  \_\_\_\_\_  
4.  $3(7 + 2) =$  \_\_\_\_\_      5.  $3 \cdot 7 + 2 =$  \_\_\_\_\_      6.  $3 \cdot 7 + 3 \cdot 2 =$  \_\_\_\_\_  
7.  $4(8 - 5) =$  \_\_\_\_\_      8.  $4 \cdot 8 - 5 =$  \_\_\_\_\_      9.  $4 \cdot 8 - 4 \cdot 5 =$  \_\_\_\_\_  
10.  $7(6 - 2) =$  \_\_\_\_\_      11.  $7 \cdot 6 - 2 =$  \_\_\_\_\_      12.  $7 \cdot 6 - 7 \cdot 2 =$  \_\_\_\_\_

**Use the appropriate distributive law to write the expressions without parentheses. Don't have any 'double signs' in your final answers.**

13.  $5(x + 2) =$  \_\_\_\_\_      14.  $7(y - 6) =$  \_\_\_\_\_  
15.  $-2(x + 4) =$  \_\_\_\_\_      16.  $-3(y - 4) =$  \_\_\_\_\_  
17.  $4(3x + 5) =$  \_\_\_\_\_      18.  $-6(2y + 1) =$  \_\_\_\_\_  
19.  $8(5x - 3) =$  \_\_\_\_\_      20.  $-9(4y - 5) =$  \_\_\_\_\_

**Write each of the following without parentheses. Don't have any 'double signs' in your final answers.**

21.  $-(x + 2) =$  \_\_\_\_\_      22.  $-(3x + 1) =$  \_\_\_\_\_      23.  $-(5x + 8) =$  \_\_\_\_\_  
24.  $-(x - 3) =$  \_\_\_\_\_      25.  $-(5x - 3) =$  \_\_\_\_\_      26.  $-(7x - 1) =$  \_\_\_\_\_

**Simplify each of the following.**

27.  $(4x + 5) - (x + 3) =$  \_\_\_\_\_      28.  $(7x + 2) - (3x + 6) =$  \_\_\_\_\_  
29.  $(2x + 7) - (5x - 3) =$  \_\_\_\_\_      30.  $(6x + 2) - (4x - 3) =$  \_\_\_\_\_  
31.  $(5x - 2) - (3x + 5) =$  \_\_\_\_\_      32.  $(3x - 6) - (7x - 4) =$  \_\_\_\_\_

## Algebra I Worksheet #6 Unit 1 page 2

Simplify each of the following. Hint: Use the appropriate distributive property. Then combine like terms.

33.  $2(x + 2) + 4(x + 3) =$  \_\_\_\_\_

34.  $7(y + 5) + 5(y + 1) =$  \_\_\_\_\_

35.  $6(5x + 2) + 3(2x - 2) =$  \_\_\_\_\_

36.  $4(2y - 5) + 3(3y - 4) =$  \_\_\_\_\_

37.  $3(x + 2) - 2(x + 5) =$  \_\_\_\_\_

38.  $8(y + 3) - 5(y + 2) =$  \_\_\_\_\_

39.  $4(3x - 5) - 2(3x + 1) =$  \_\_\_\_\_

40.  $7(4y - 1) - 4(7y - 3) =$  \_\_\_\_\_