

## Notes-Day 2: Combine Like Terms

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

1) -Term: A single number or variable, or the product of several numbers or variables, separated from another term by a + or – sign in an overall expression.

-Like Terms: Have exactly the same variables.

Simplify means getting all the like terms together

Solving means to (Start Memorizing these 5 Steps!)

1 - Distributive Property - to Eliminate Parenthesis

2 - Combine Like Terms - get same variable with same exponent together

3 - Get all Variables (x's) on one side of the equal sign

4 - Get all Constant numbers on the other side of the equal sign

5 - Multiply or Divide to get Variable (x) all by itself.

**Simplify each expression.**

2)  $1 + 10x - 7$

3)  $1 - 5n - 4$

4)  $-3n + 9n$

5)  $5a - 9a$

6)  $-6(-9 + 4x)$

7)  $-7(6 + 4k)$

8)  $-2(1 + 2r)$

9)  $-(1 - 7x)$

$$10) 6(k-3) - 7$$

$$11) -3 - (8 - 10m)$$

$$12) 2 - 9(n-3)$$

$$13) 5 + 10(6 + 9n)$$

$$14) -9(3a + 5) + 9(-9a - 6)$$

$$15) 3(3 - 3m) - 9(2 - 4m)$$

$$16) 6(4v - 3) + 4(8v + 1)$$

$$17) -4p(5p - 10) + 8p(10 - 7p)$$

$$18) \frac{5}{3}r + \frac{2}{3} + \frac{1}{2}r$$

$$19) \frac{3}{2}x + 1 - x$$

$$20) -\frac{7}{3}\left(a - \frac{7}{2}\right)$$

$$21) -\frac{5}{2}\left(\frac{5}{3}x + \frac{3}{2}\right)$$