**Combining Like Terms Guided Notes**

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ are terms whose \_\_\_\_\_\_\_\_\_\_\_\_ (including exponents) are the same.

Examples of Like Terms:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ are terms that do not have the same \_\_\_\_\_\_\_\_\_\_ to the same \_\_\_\_\_\_\_\_\_\_\_.

Examples of Unlike Terms:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Combining Like Terms in Expressions

You \_\_\_\_\_\_\_ only combine like terms. You \_\_\_\_\_\_\_ combine unlike terms.

Example 1: Simplify

$$5x+4y+9x+7$$

Example 2: Simplify

 $4x^{2}+5y+8+3x^{2}-5$

Example 3: Simplify

$$7y^{2}+a+11-a$$

Example 4: Simplify

$$\frac{2}{3}y^{2}+2x+11\frac{3}{4 }y^{2}+5x$$

Practice

Add like terms.

1). $2x+5y+8-3y-1$

2). 8$t^{3}+9t^{2}+15t+7t^{2}$

3). $3h+13g+6h+14+5g-4$

4). $20+\frac{1}{5}y+14+\frac{2}{9}y$