

Name \_\_\_\_\_  
Mrs. Roubos

Date \_\_\_\_\_  
8R Period \_\_\_\_\_

Solving Equations by Combining Like Terms

I. Goal:

II Steps:

- 1) Re-arrange the like terms using the \_\_\_\_\_.
- 2) \_\_\_\_\_ the like terms (on the \_\_\_\_\_ of the equal sign) by performing the operation in \_\_\_\_\_ the 2nd term.
- 3) Eliminate the \_\_\_\_\_ by using \_\_\_\_\_ or \_\_\_\_\_.
- 4) Eliminate the \_\_\_\_\_ by using \_\_\_\_\_ or \_\_\_\_\_.
- 5)

III. Examples: Solve

1)  $8x + 3 - 2x = 63$

2)  $72 = 10x + 7 + 3x$

$$3) 20 - 2y + 3 = 47$$

$$4) \frac{1}{3} + x + \frac{1}{3} = \frac{1}{3}$$

$$5) -6 + 3 + \frac{x}{4} = 7$$

$$6) 14 = 2d + d + 10 + d$$

$$7) 12s + 7 + 3s = 67$$

$$*8) 4m - 8 - 3m = 3m + 5 - 3m$$

$$*9) 5x + 4 + 3x + 5x + 3 = 72$$

$$*10) 6 + 2y + 1 + 10y + 3y = 60 + 5 + 2$$