Name_____ Date_____

Mrs. Roumbos 8R Period_____

Solving Equations Containing Parentheses

I. Goal: To first remove the _____using the _____ property and then solve the remaining equation by _____the variable.

**To distribute means to _____

Examples: Simplify the following

1) $7(x - 4)$ 2) $-2(n - 6)$ 3) $-(4x - 2)$

II Steps:

1) _____the # and sign in front of the parentheses to each term _____ the parentheses.

2) _____the like terms on the _____ side of the equal sign

(using the _____ _____)

3) _____ the _____variable to the _____ across the equal sign.

(using the _____ _____)

4) _____ the remaining _____.

III. Examples: Solve for the missing variable.

1) $4(x - 4) = 20$

2) $-3(x - 6) = 3x$

3) $2 + 3(m - 6) = 14$

4) $10 = 5y - 2(y + 1)$

5) $13 + c + 2 = 3(c - 5)$

6) $\frac{1}{2}(2n + 6) = 5n - 12 - n$

7) $4(x - 5) + 2 = x + 3$

8) $2(m + 10) = 4(m - 15)$

*9) $7(2x - 3) + 6 = -2(-6x - 20) - 1$

*10) $3(4b - 7) = 2(3b + 11) + 5$