

# Factor Trinomials by Grouping

## Objective:

Rewrite a trinomial into Factored Form using grouping

## FACTOR TRINOMIALS

A TRINOMIAL is of the form  $Ax^2 + Bx + C$ , where  $A, B$  are coefficients and  $C$  is a constant.

I. LOOK FOR A **GCF!!!** If it exists, factor it out.

II. Find two numbers  $m, n$  such that

$$m \cdot n = A \cdot C$$

$$m + n = B$$

III. Rewrite  $Bx \rightarrow mx + nx$

IV. Rewrite into Factored Form by grouping.  $Ax^2 + mx + nx + C$

Rewrite TRINOMIALS into Factored Form

1)  $2b^2 - 11b + 5$

2)  $2x^2 + 7x + 3$

3)  $3x^2 + 8x + 5$

4)  $a^2 + a - 6$

5)  $b^2 + 5b + 4$

6)  $8x^2 + 26x + 20$

Assignment:  
Finish 2.3 worksheet  
And  
MathXL 2.3

Remember to show all your steps!