1.4 Factoring Trinomials

umber 1 rule when factoring: factor out common monomials first

ɔctoring trinomials of the form $x^2 + bx + c$

- What two numbers add to get ***b*** and multiply to get ***c***

  (x + ___)(x + ___)

- EX: $b^2 - 13b + 42$

  (b - 7)(b - 6) $-7, -6$

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Factoring trinomials of the form $ax^2 + bx + c$

1. Find two numbers that multiply to get ***ac*** and add to get ***b***
2. Rewrite the middle term of the trinomial using these two numbers and then Regroup $(ax^2 + \_x + \_x + c)$
3. Factor groups and rewrite

EX: $2x^2 + 11x - 21$

1. ac = -42 b = 11

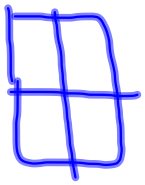
   14·-3 = -42 14 + -3 = 11

2. $2x^2 + 14x - 3x - 21$

3. $2x^2 + 14x - 3x - 21$

   2x(x+7) – 3(x+7)

   (2x-3)(x+7) ★



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8-22, 30-48, 60-70 : evens

odds Extra credit