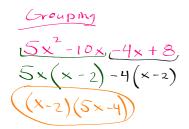
1-3 Factoring Quadratics

(Leading Coefficient > 1)

Objectives:

1-3a: I can factor a trinomial with a leading coefficient greater than 1.



$$\frac{(4x^{2}-16x)-x+4}{(4x-4)-1(x-4)}$$

$$(x-4)(4x-1)$$

$$x^{2}-2x-8$$

$$(x-4)(4x-1)$$

$$x^{2}-12x+27$$

$$x^{2}-12x+27$$

May 31-3:15 PM

How to Factor a Quadratic

Factoring quadratics in the form $ax^2 + bx + c$

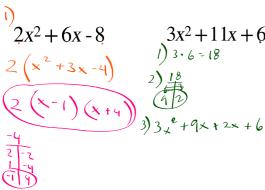
- 1. Factor out the GCF
- 2. Multiply a and c
- 3. Find two factors of ac that add to b

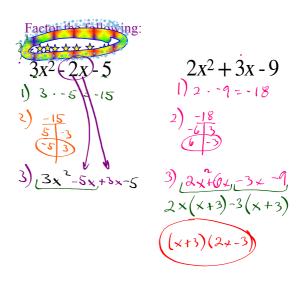
 *If ac is negative, factor.s must have opposite signs

 *If ac is positive, factors must have same (+ or -) signs
- 4. Re-write equation with b split up into factors
- 5. Find the GCF by grouping
- 6. Factor the GCF of the whole

Dec 27-4:04 PM

Factor the following:





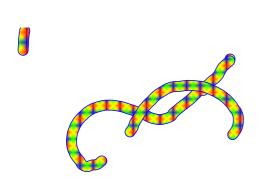
Factor the following:

$$5x^2 + 10x + 20$$

$$2x^2 + 22x + 60$$

Jun 6-9:15 AM

Aug 30-9:36 AM



Aug 30-10:18 AM

Aug 30-10:22 AM