Unit 3: Polynomials
Day 6: Factoring Complex Trinomials Using Decomposition

Today we will....
1.   Learn the method of Decomposition to factor complex trinomials (a ≠ 1)

$$3x^2 - 10x + 8$$

$$\underline{ax^2 + bx + c}$$

Step 1: Find Product ac

Step 2: Find factors of ac that sum to b

Step 3: Decompose b into the factors of ac

Step 4: Common Factor the first two terms and common factor the second two terms.

Step 5: Common Factor the binomial

Examples.
Factor each of the following.
Remember to look for common factors first!

1. $3x^2 + 11x + 6$
2. $4x^2 - 8x - 5$

3. $12x^2 - 25x + 12$

4. $7x^2 + 19x - 6$

5. $16a^2 - 50a + 36$
    common factor first!

6. $18x^2 + 33x - 30$
    common factor first!

Practice:

Worksheet " Boarding House"

and for additional practice...Pg 307   #5

Attachments

Factor_Trinomial.pdf

Factor_Trinomial.pdf