

Greatest Common Factor

- To factor polynomials you use the GCF
- GCF - is the Greatest Common factor that can go into all terms
- can be coefficients and variables

Examples

1. $5x + 30y$
GCF $\rightarrow 5(x + 6y)$

2. $16bc^2 + 24bc$
 $8bc(2c + 3)$

3. $m^3n - m^2n^2 + 5mn$
 $mn(m^2 - mn + 5n)$

Trinomial

$$ax^2 + bx + c$$

- If "a" cannot be factored out GCF, use Slip + Slide
- Step 1: "Slip" a to the end of the trinomial + multiply by C

$$ax^2 + bx + C$$

- Step 2: Factor this new basic trinomial

- Step 3: Divide both your factors by the value you "slipped" in Step 2

- Step 4: Reduce the fractions + "slide" any denominators next to the variable

Examples

1. $2x^2 + 5x + 2$
 $x^2 + 5x + 10$
 $(x+1)(x+4)$
 $\frac{1}{2} \quad \frac{5}{2}$
 $(2x+1)(x+2)$

2. $12m^2 - 34m - 15$
 $3(4m^2 - 8m - 5)$
 $3(m^2 - 8m - 30)$
 $3(m-10)(m+3)$
 $3(2m-5)(2m+1)$

3. $12m^2 + 2x - 2$
 $2(6m^2 + x - 1)$
 $2(m^2 + x - 6)$



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