



Algebra II
Factoring Notes

Today I will...	I'll know I've got it when...	Essential Question...

Factoring using the GCF (Greatest Common Factor)

Example 1: Factor $2u^2 + 8u$ by factoring out the GCF.

Example 2: Factor $4x^2 + 4x - 4$ by factoring out the GCF.

Factoring using Grouping (Use on polynomials with 4 terms)

Example 3: Factor $x^3 - 2x^2 - 3x + 6$ using grouping.

Example 4: Factor $2x^3 - x^2 - 6x + 3$ using grouping.

Factoring a Difference of Two Squares/Perfect Square Trinomial

Example 5: Factor $4x^2 - 49$.

Example 6: Factor $16x^2 - 25$.

Example 7: Factor $4x^2 - 12x + 9$.

Example 8: Factor $9x^2 + 6x + 1$.

Factoring a General Trinomial

Example 9: Factor $x^2 - 12x - 28$.

Example 10: Factor $x^2 - 2x - 48$.

Example 11: Factor $x^2 + 10x + 1$.

Example 12: Factor $3x^2 - 17x + 10$.

Example 13: Factor $4x^2 - 4x - 3$.

Example 14: Factor $-2x^2 + 5x - 2$.

Example 15: Factor $4x^2 - 144$.

Example 16: Factor $75x^2 - 60x + 12$.