Factoring out a Common Term of a Polynomial

$3x^2 + 12x$

$4x^2 + 16x + 4$

$2x^2 + x$

$-2x + 7$

$-5x^2 - 15x + 20$

Factoring Quadratics in the form of $Ax^2 + Bx + C$; where "A" = 1.

$x^2 + 5x + 6$

$x^2 - 13x - 30$

$x^2 - 7x + 10$

$x^2 + 3x + 5$

Factoring Quadratics in the form of $Ax^2 + Bx + C$; where "A" DOES NOT = 1.

ALWAYS NEED TO CHECK FOR A COMMON FACTOR FIRST

$2x^2 + 13x + 15$

$9x^2 + 21x + 6$

$-x^2 + 7x + 8$

$-6x^2 + 3x + 18$

Factoring the Difference of Two Squares

$A^2 - B^2 = (A - B)(A + B)$

$x^2 - 16$

$4x^2 - 49$

$3x^2 - 75$

$-x^2 + 4$

Factoring the Difference Perfect Square Trinomials

$x^2 + 4x + 4$

$4x^2 - 12x + 9$

$-25x^2 - 10x - 1$