

$x^2 + 5x$		$x(x^2 - 6x + 3)$
$x^5 + 2x^3 - 3x$		$x(x^4 + 2x^2 - 3)$
$4x^2 - 2$		$x(x + 5)$
$x^3 - 6x^2 + 3x$		$2x(2x - 1)$
$4x^2 - 2x$		$2(2x^2 - 1)$

$2a^3 - 3a^2b$		$a^2b(3b^2 + 6b - 4)$
$2a^2b + 10ab$		$a^2(2a - 3b)$
$3a^2b^3 - 3ab$		$2ab(a + 5)$
$a^3b^2 - 5a^2b^2 + 3a^2b$		$3ab(ab^2 - 1)$
$3a^2b^3 + 6a^2b^2 - 4a^2b$		$a^2b(ab - 5b + 3)$

$3x^2 + 3xy + 2x + 2y$		$(3x + 2)(x + y)$
$x^6 - x^4 - 2x^2 + 2$		$(x^2 - 1)(x^4 - 2)$
$10x^2y - 5x^2 + 2xy^2 - xy$		$(2y - 1)(5x^2 + xy)$