Nickname: _____   No.: _____   Class: _____

Part 1: Factor out the greatest common factor (GCF) from each expression.

$12x + 18$ =	$15y^2 - 25y$ =
$24a^3 + 36a^2$ =	$14m - 21n$ =
$30x^2y + 45xy^2$ =	$16p^3 - 24p^2 + 8p$ =
$28ab + 42a$ =	$9x^3 - 27x^2 + 18x$ =
$35m^2n - 14mn^2$ =	$20x^4 + 30x^3 - 10x^2$ =

Part 2: Factor each quadratic expression into two binomials of the form (ax + b)(cx + d).

$x^2 + 7x + 12$ =	$x^2 - 5x + 6$ =
$x^2 + 9x + 20$ =	$x^2 - x - 12$ =
$x^2 + 2x - 15$ =	$x^2 - 9x + 18$ =
$x^2 - 8x + 15$ =	$x^2 + 3x - 18$ =
$x^2 + 4x - 21$ =	$x^2 - 11x + 24$ =