

Name _____ GCF LCM polynomials period _____

Find the GCF (greatest common factor) and the LCM (least common multiple for each expression

Greatest Common Factor =largest numerical coefficient that divides evenly into each expression times the LOWEST power of any COMMON polynomial

Least Common Multiple = smallest common numerical coefficient product times the highest power of any polynomial factor present in BOTH polynomials

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$4x^6y^{12}(x-1)^3(x+2)$	$20x^2y^{120}(x+2)^9(x-1)$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$2x^2 - 8x$	$3x^3 - 48x$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$2x^2 - 8x - 12$	$x^3 - 36x$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$2x^2y$	$8x^4y - 64xy$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$x^2 - 2x - 10$	$16x^3 - 400x$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$2x^2 - 2x - 12$	$3x^3 - 3x^2 - 18x$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression

Expression 1	Expression 2	Greatest Common Factor	Least Common Multiple
$2x^2 - 4x + 2$	$4x^4 - 4x^2$		
Factored form of the expression	Factored form of the expression	Factored form of the expression	Factored form of the expression