

Factoring Puzzle

Cut out the pieces of the puzzle and match them correctly

$x^2 + 8x + 15$ $(x + 3)$ $(x - 4)$	$18x^2 + 45x$ $(x + 4)$ $(x + 9)$	$x^2 - x - 20$ $3x$ $(x + 5)$
$6x^2 - 15x$ $-x$ $(x - 1)$	$x^2 - 6x + 8$ $(x + 3)$ $(x + 4)$	$x^2 - 3x - 18$ $(x + 9)$ $(x - 47)$
$x^2 + 7x - 18$ $(x + 3)$ $(x - 2)$	$5x^3 + 20x^2$ $9x$ $(2x - 11)$	$x^2 - 2x + 1$ $(x - 2)$ $(x + 6)$
$x^2 - 4x + 4$ $(x + 2)$ $(2x + 5)$	$x^2 - 45x - 94$ $6x$ $(x - 16)$	$12x^2 - 66x$ $(x - 2)$ $(x + 9)$
$x^2 + 18x + 81$ $5x^2$ $(2x - 5)$	$-x^2 - 6x$ $(x - 1)$ $(x - 6)$	$x^2 - 13x - 48$ $(x - 2)$ $(x - 5)$

Solution

$x^2 + 8x + 15$ $(x + 3)$ $(x + 5)$	$18x^2 + 45x$ $9x$ $(2x + 5)$	$x^2 - x - 20$ $(x + 4)$ $(x - 5)$
$6x^2 - 15x$ $3x$ $(2x - 5)$	$x^2 - 6x + 8$ $(x - 2)$ $(x - 4)$	$x^2 - 3x - 18$ $(x + 3)$ $(x - 6)$
$x^2 + 7x - 18$ $(x - 2)$ $(x + 9)$	$5x^3 + 20x^2$ $5x^2$ $(x + 4)$	$x^2 - 2x + 1$ $(x - 1)$ $(x - 1)$
$x^2 - 4x + 4$ $(x - 2)$ $(x - 2)$	$x^2 - 45x - 94$ $(x + 2)$ $(x - 47)$	$12x^2 - 66x$ $6x$ $(2x - 11)$
$x^2 + 18x + 81$ $(x + 9)$ $(x + 9)$	$-x^2 - 6x$ $-x$ $(x + 6)$	$x^2 - 13x - 48$ $(x + 3)$ $(x - 16)$