

### 3.2.5: Factoring Game (Solution)

$16x^2 - 36$	$2x^2 + 13x + 15$ $(2x + 3)(x + 5)$	$5xy - 2x$	$x^2 + 12x - 45$ $(x + 15)(x - 3)$	$x^2 + 3x - 40$	$x^2 + 3x - 28$ $(x + 7)(x - 4)$
$4(2x + 3)(2x - 3)$	$15x^2 + 3x - 12$ $3(5x - 4)(x + 1)$	$x(5y - 2)$	$x^3 + 5x^2 + 6x$ $x(x + 3)(x + 2)$	$(x + 8)(x - 5)$	$2x^2 - 6x + 2$ $2(x^2 - 3x + 1)$
$10x^2 + x - 3$	$3 + 4x - 15x^2$ $(3 - 5x)(1 + 3x)$	$5xy - 2y$	$y(5x - 2)$	$x^2 - 3x - 40$	$9x^2 + 6x + 1$ $(3x + 1)^2$
$(5x + 3)(2x - 1)$	$10x^2 - x - 3$	$50x^2 - 72$	$15x^2 + 3x - 12$ $3(5x - 4)(x + 1)$	$(x - 8)(x + 5)$	$15x^3 - 30x^2 + 10x$ $3x(5x - 4)(x + 1)$
$5x^2 - 10x$	$5x(x - 2)$	$x^4 - 81$	$x^2 + 13x + 40$	$9x^2 - 1$	$9x^2 - 1$ $(3x - 1)(3x + 1)$
$(5x - 3)(2x + 1)$	$2(5x - 6)(5x + 6)$	$(x^2 + 9)(x + 3)(x - 3)$	$(x + 8)(x + 5)$	$x^4 + 13x^3 + 40x^2$ $x^2(x + 8)(x + 5)$	$(3x - 1)(3x + 1)$