



## Polynomial Expansion

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

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

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

$$6x + (6 + 3x)(4x + 3)(5x + 2)$$

$$3x - (3 - 3x)(x - 2)(2x - 5)$$

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

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

$$6x + (3 + 3x)(4x + 3)(x - 2)$$

$$(5x + 3)(x + 5)(4x + 2)$$

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

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



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$$(4x^2 - 2x - 6)(2x - 1) - 1x + 6$$
$$8x^3 - 8x^2 - 11x + 12$$

$$(5x^2 + 3)(4x + 3) - x^2 - 5x + 1$$
$$20x^3 + 14x^2 + 7x + 10$$

$$6x + (6 + 3x)(4x + 3)(5x + 2)$$
$$60x^3 + 189x^2 + 162x + 36$$

$$3x - (3 - 3x)(x - 2)(2x - 5)$$
$$6x^3 - 33x^2 + 60x - 30$$

$$(4x - 4)(5x^2 - 5x + 3) + (5x + 3)(4x + 1)$$
$$20x^3 - 20x^2 + 49x - 9$$

$$(3x - 6)(x^2 - 5x + 1) + (x - 3)(4x + 5)$$
$$3x^3 - 17x^2 + 26x - 21$$

$$6x + (3 + 3x)(4x + 3)(x - 2)$$
$$12x^3 - 3x^2 - 27x - 18$$

$$(5x + 3)(x + 5)(4x + 2)$$
$$20x^3 + 122x^2 + 116x + 30$$

$$(5x^2 - 2)(6x + 6) - 2x^2 + 4x + 5$$
$$30x^3 + 28x^2 - 8x - 7$$

$$(5x^2 - 2x + 3)(5x - 4) - 6 \times 2x + 4$$
$$25x^3 - 30x^2 + 11x - 8$$