



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

$$(5x^2 + x - 5)(4x + 4) + 1 \times 4x + 5$$

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

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

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

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



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$$(6x^2 + 3)(2x + 3) + 3x^2 - 3x - 3$$
$$12x^3 + 21x^2 + 3x + 6$$

$$(2x^2 + 5x + 2)(4x + 6) + 2 \times 2x + 3$$
$$8x^3 + 32x^2 + 42x + 15$$

$$(2x^2 - 2x + 1)(5x + 6) + 4 \times 4x - 3$$
$$10x^3 + 2x^2 + 9x + 3$$

$$(6x^2 - x - 6)(2x + 3) + 6x - 2$$
$$12x^3 + 16x^2 - 9x - 20$$

$$(2x - 1)(4x^2 - 6x + 5) + (3x + 2)(5x - 1)$$
$$8x^3 - x^2 + 23x - 7$$

$$(5x^2 + x - 5)(4x + 4) + 1 \times 4x + 5$$
$$20x^3 + 24x^2 - 12x - 15$$

$$(2x^2 - 5)(x + 3) - x^2 + 3x + 2$$
$$2x^3 + 5x^2 - 2x - 13$$

$$(3x^2 + 3x + 3)(3x + 2) + 4 \times 5x - 5$$
$$9x^3 + 15x^2 + 35x + 1$$

$$5x - (4 - 5x)(6x + 6)(4x + 5)$$
$$120x^3 + 174x^2 - 61x - 120$$

$$(x^2 - 4)(5x - 2) - 6x^2 - 2x - 1$$
$$5x^3 - 8x^2 - 22x + 7$$