



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(6x + 3)(6x^2 - 6x + 5) + (2x - 4)(3x + 1)$$
$$36x^3 - 12x^2 + 2x + 11$$

$$(5x + 6)(6x^2 - 2x + 6) - (5x + 4)(4x - 6)$$
$$30x^3 + 6x^2 + 32x + 60$$

$$(3x^2 + 4x - 4)(6x + 3) + 1 \times 6x - 4$$
$$18x^3 + 33x^2 - 6x - 16$$

$$(2x^2 + 6x - 1)(x + 2) + 5x + 5$$
$$2x^3 + 10x^2 + 16x + 3$$

$$(4x + 3)(2x - 3)(3x - 5)$$
$$24x^3 - 58x^2 + 3x + 45$$

$$6x + (6 + 6x)(x - 2)(3x + 5)$$
$$18x^3 + 12x^2 - 60x - 60$$

$$(3x - 6)(x^2 + 6x - 2) - (x - 1)(2x + 4)$$
$$3x^3 + 10x^2 - 44x + 16$$

$$6x + (6 + 5x)(4x - 6)(4x - 3)$$
$$80x^3 - 84x^2 - 120x + 108$$

$$6x + (4 - 2x)(2x - 1)(2x + 1)$$
$$-8x^3 + 16x^2 + 8x - 4$$

$$(5x + 3)(6x^2 + 2x + 2) + (3x - 5)(6x - 3)$$
$$30x^3 + 46x^2 - 23x + 21$$