

Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

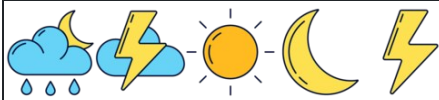
$$(6x^2 - 5)(2x - 6) - 2x^2 - 2x + 2$$

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

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

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

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



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$$(3x^2 + 2)(2x + 4) - 3x^2 + 4x - 4$$
$$6x^3 + 9x^2 + 8x + 4$$

$$4x + (1 - 6x)(4x + 3)(5x + 3)$$
$$-120x^3 - 142x^2 - 23x + 9$$

$$(5x + 2)(x^2 - 6x - 4) + (2x - 4)(4x + 6)$$
$$5x^3 - 20x^2 - 36x - 32$$

$$(x + 4)(3x^2 + 3x + 6) - (4x - 1)(x - 3)$$
$$3x^3 + 11x^2 + 31x + 21$$

$$(5x^2 - 2x - 4)(x - 5) + 4 \times 4x - 4$$
$$5x^3 - 27x^2 + 22x + 16$$

$$(6x^2 - 5)(2x - 6) - 2x^2 - 2x + 2$$
$$12x^3 - 38x^2 - 12x + 32$$

$$(5x + 1)(6x^2 + 3x + 2) - (2x - 1)(5x + 4)$$
$$30x^3 + 11x^2 + 10x + 6$$

$$(3x^2 + x + 2)(x - 3) - 4 \times 5x + 2$$
$$3x^3 - 8x^2 - 21x - 4$$

$$3x - (2 + 3x)(x + 3)(5x + 6)$$
$$-15x^3 - 73x^2 - 93x - 36$$

$$6x + (1 - x)(2x + 3)(5x + 2)$$
$$-10x^3 - 9x^2 + 19x + 6$$