



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(5x - 6)(4x^2 + 3x - 2) + (x + 2)(4x - 4)$$
$$20x^3 - 5x^2 - 24x + 4$$

$$(4x^2 - 3x - 6)(2x + 5) + 4 \times 4x - 5$$
$$8x^3 + 14x^2 - 11x - 35$$

$$3x - (1 + 4x)(5x - 1)(5x - 3)$$
$$-100x^3 + 55x^2 + 11x - 3$$

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

$$(x^2 + 2x - 1)(3x + 4) + 6 \times 3x + 2$$
$$3x^3 + 10x^2 + 23x - 2$$

$$(5x - 5)(6x - 2)(2x + 6)$$
$$60x^3 + 100x^2 - 220x + 60$$

$$(3x + 3)(6x - 3)(2x - 3)$$
$$36x^3 - 36x^2 - 45x + 27$$

$$(4x + 4)(6x + 6)(6x - 3)$$
$$144x^3 + 216x^2 - 72$$

$$5x + (3 + 4x)(4x - 6)(2x + 5)$$
$$32x^3 + 56x^2 - 91x - 90$$

$$(5x + 2)(6x^2 - 3x - 4) + (2x - 6)(5x + 1)$$
$$30x^3 + 7x^2 - 54x - 14$$