



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(x + 4)(x + 1)(2x + 4)$$
$$2x^3 + 14x^2 + 28x + 16$$

$$3x - (5 - 4x)(x + 4)(2x + 5)$$
$$8x^3 + 42x^2 + 18x - 100$$

$$6x - (1 + 5x)(x - 1)(4x + 4)$$
$$-20x^3 - 4x^2 + 26x + 4$$

$$2x + (4 + 3x)(6x - 6)(x - 4)$$
$$18x^3 - 66x^2 - 46x + 96$$

$$(4x^2 - 5x + 1)(5x - 5) + 2x + 4$$
$$20x^3 - 45x^2 + 32x - 1$$

$$(2x^2 - 6)(2x - 3) - 3x^2 + 5x + 3$$
$$4x^3 - 9x^2 - 7x + 21$$

$$(x^2 + 4)(4x - 3) + 4x^2 + 2x + 5$$
$$4x^3 + x^2 + 18x - 7$$

$$(x^2 + 3x + 3)(3x + 1) + 4 \times 6x + 4$$
$$3x^3 + 10x^2 + 36x + 7$$

$$6x + (1 + 2x)(3x + 3)(3x + 6)$$
$$18x^3 + 63x^2 + 69x + 18$$

$$(2x^2 - 6)(5x + 2) + 3x^2 + 4x + 6$$
$$10x^3 + 7x^2 - 26x - 6$$