



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(3x + 5)(3x + 1)(5x + 5)$$
$$45x^3 + 135x^2 + 115x + 25$$

$$(4x^2 + 3x - 4)(5x + 3) - 6 \times 4x - 6$$
$$20x^3 + 27x^2 - 35x - 18$$

$$5x + (4 + 2x)(x + 3)(3x - 2)$$
$$6x^3 + 26x^2 + 21x - 24$$

$$(5x + 4)(x^2 + x - 4) + (2x - 5)(3x + 6)$$
$$5x^3 + 15x^2 - 19x - 46$$

$$(2x + 5)(6x^2 + 5x + 2) - (6x + 2)(2x + 5)$$
$$12x^3 + 28x^2 - 5x$$

$$(5x + 5)(x - 6)(2x - 2)$$
$$10x^3 - 60x^2 - 10x + 60$$

$$3x - (1 + 4x)(5x - 6)(4x - 5)$$
$$-80x^3 + 176x^2 - 68x - 30$$

$$2x + (1 + x)(x - 2)(3x - 6)$$
$$3x^3 - 9x^2 + 2x + 12$$

$$(2x^2 + 5x - 4)(6x + 5) + 5 \times 5x - 4$$
$$12x^3 + 40x^2 + 26x - 24$$

$$(4x^2 + 3x + 6)(3x + 1) + 1 \times 4x - 6$$
$$12x^3 + 13x^2 + 25x$$