



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(2x - 5)(2x - 5)(3x + 6)$$
$$12x^3 - 36x^2 - 45x + 150$$

$$x + (6 + 3x)(4x + 2)(3x + 2)$$
$$36x^3 + 114x^2 + 97x + 24$$

$$(5x + 6)(6x - 5)(6x + 5)$$
$$180x^3 + 216x^2 - 125x - 150$$

$$(5x - 5)(2x^2 + 6x - 6) - (x + 4)(3x - 2)$$
$$10x^3 + 17x^2 - 70x + 38$$

$$(x^2 + 2x + 5)(5x - 4) + 5 \times 3x - 2$$
$$5x^3 + 6x^2 + 32x - 22$$

$$(5x - 5)(2x - 1)(2x - 4)$$
$$20x^3 - 70x^2 + 70x - 20$$

$$(4x + 5)(x + 3)(4x - 6)$$
$$16x^3 + 44x^2 - 42x - 90$$

$$(6x^2 + 2)(2x + 2) - 6x^2 + 3x - 2$$
$$12x^3 + 6x^2 + 7x + 2$$

$$(5x + 1)(2x^2 + 5x + 3) + (3x - 6)(6x + 2)$$
$$10x^3 + 45x^2 - 10x - 9$$

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