



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$2x + (3 - 6x)(5x - 5)(x + 4)$$
$$-30x^3 - 75x^2 + 167x - 60$$

$$(x^2 + 6)(x + 2) + 3x^2 + x + 5$$
$$x^3 + 5x^2 + 7x + 17$$

$$(4x^2 - 3x + 6)(2x + 6) - 6 \times 3x + 1$$
$$8x^3 + 18x^2 - 24x + 37$$

$$(2x + 6)(2x^2 - 5x - 4) + (x - 6)(x - 1)$$
$$4x^3 + 3x^2 - 45x - 18$$

$$(4x^2 - 4x - 4)(6x - 1) - 1 \times 3x - 2$$
$$24x^3 - 28x^2 - 23x + 2$$

$$(2x^2 - 6x - 5)(x + 5) - 4 \times 2x + 2$$
$$2x^3 + 4x^2 - 43x - 23$$

$$(6x + 5)(2x^2 - 4x + 4) + (4x + 6)(4x + 1)$$
$$12x^3 + 2x^2 + 32x + 26$$

$$(4x^2 - 4x - 6)(5x + 2) + 3 \times 5x - 6$$
$$20x^3 - 12x^2 - 23x - 18$$

$$(5x^2 + 4x - 4)(2x + 3) - 4 \times 3x - 6$$
$$10x^3 + 23x^2 - 8x - 18$$

$$(2x^2 - 6)(6x - 1) - 5x^2 + 5x - 2$$
$$12x^3 - 7x^2 - 31x + 4$$