



## Polynomial Expansion

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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



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$$(2x - 2)(x^2 - 2x + 5) + (5x - 6)(3x - 3)$$
$$2x^3 + 9x^2 - 19x + 8$$

$$(2x^2 + 6x - 3)(4x + 3) - 5 \times 2x - 3$$
$$8x^3 + 30x^2 - 4x - 12$$

$$(2x - 5)(3x - 5)(6x - 2)$$
$$36x^3 - 162x^2 + 200x - 50$$

$$4x + (4 + 5x)(4x - 2)(5x + 6)$$
$$100x^3 + 150x^2 - 48$$

$$(4x - 2)(4x^2 + 6x - 5) + (3x - 6)(4x + 2)$$
$$16x^3 + 28x^2 - 50x - 2$$

$$(4x^2 - 6x - 6)(x - 4) + 4 \times 4x - 1$$
$$4x^3 - 22x^2 + 34x + 23$$

$$(4x^2 - x + 3)(3x + 1) + 1x + 1$$
$$12x^3 + x^2 + 9x + 4$$

$$3x - (2 + 4x)(5x - 6)(2x + 1)$$
$$-40x^3 + 8x^2 + 41x + 12$$

$$3x - (5 + 2x)(2x - 4)(6x - 1)$$
$$-24x^3 - 8x^2 + 125x - 20$$

$$(x + 4)(6x^2 - 3x + 6) + (4x + 4)(2x + 5)$$
$$6x^3 + 29x^2 + 22x + 44$$