



Name: _____

Date: _____ Score: _____

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

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

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

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

$$(3x^2 - 5x + 1)(5x + 3) + 2 \times 5x - 3$$

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

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

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

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

$$4x - (4 - 5x)(4x - 5)(5x - 5)$$



Polynomial Expansion

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$$3x - (4 - 3x)(x - 6)(x + 4)$$
$$3x^3 - 10x^2 - 61x + 96$$

$$(6x^2 + 5)(5x - 2) - 5x^2 - 6x - 5$$
$$30x^3 - 17x^2 + 19x - 15$$

$$(3x^2 - 3x + 2)(3x - 4) - 4 \times 2x + 4$$
$$9x^3 - 21x^2 + 10x - 4$$

$$(3x + 2)(3x + 5)(x + 6)$$
$$9x^3 + 75x^2 + 136x + 60$$

$$(3x^2 - 5x + 1)(5x + 3) + 2 \times 5x - 3$$
$$15x^3 - 16x^2$$

$$3x - (6 - 3x)(4x + 5)(x + 4)$$
$$12x^3 + 39x^2 - 63x - 120$$

$$(6x^2 + 5)(6x - 2) - 3x^2 + x + 5$$
$$36x^3 - 15x^2 + 31x - 5$$

$$(3x - 3)(2x - 2)(6x + 6)$$
$$36x^3 - 36x^2 - 36x + 36$$

$$(3x^2 - 3x - 1)(3x + 6) + 1 \times 5x + 5$$
$$9x^3 + 9x^2 - 16x - 1$$

$$4x - (4 - 5x)(4x - 5)(5x - 5)$$
$$100x^3 - 305x^2 + 309x - 100$$