



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(3x^2 + 6)(3x - 4) - 4x^2 + 3x - 5$$
$$9x^3 - 16x^2 + 21x - 29$$

$$(6x^2 - 6x - 5)(x + 5) + 1 \times 3x - 1$$
$$6x^3 + 24x^2 - 32x - 26$$

$$(5x + 4)(4x^2 - 4x + 5) - (4x - 6)(4x + 2)$$
$$20x^3 - 20x^2 + 25x + 32$$

$$(x^2 - 2)(6x + 5) + x^2 + 2x - 1$$
$$6x^3 + 6x^2 - 10x - 11$$

$$(2x - 2)(5x^2 - 3x - 3) - (3x + 5)(3x + 6)$$
$$10x^3 - 25x^2 - 33x - 24$$

$$3x - (5 - 5x)(2x - 4)(2x - 3)$$
$$20x^3 - 90x^2 + 133x - 60$$

$$2x - (5 - 6x)(x - 1)(3x - 4)$$
$$18x^3 - 57x^2 + 61x - 20$$

$$4x - (2 - 3x)(x - 2)(3x - 4)$$
$$9x^3 - 36x^2 + 48x - 16$$

$$(6x^2 - 6)(4x + 3) + 4x^2 + x + 2$$
$$24x^3 + 22x^2 - 23x - 16$$

$$(6x^2 + 3x - 2)(2x - 2) - 6 \times 5x + 6$$
$$12x^3 - 6x^2 - 40x + 10$$