



Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$(3x^2 - 5x - 4)(x + 4) + 6 \times 5x - 6$$
$$3x^3 + 7x^2 + 6x - 22$$

$$(4x + 3)(6x^2 - 3x - 4) - (4x + 6)(5x + 1)$$
$$24x^3 - 14x^2 - 59x - 18$$

$$(x - 6)(5x^2 + 5x + 4) + (2x - 3)(2x - 3)$$
$$5x^3 - 21x^2 - 38x - 15$$

$$(4x + 3)(5x + 2)(6x - 3)$$
$$120x^3 + 78x^2 - 33x - 18$$

$$(3x^2 + 4)(4x - 2) - 3x^2 + x + 1$$
$$12x^3 - 9x^2 + 17x - 7$$

$$(4x + 2)(2x^2 - x - 1) + (4x - 2)(6x - 1)$$
$$8x^3 + 24x^2 - 22x$$

$$(6x + 2)(4x^2 + 6x - 1) + (5x + 5)(5x + 2)$$
$$24x^3 + 69x^2 + 41x + 8$$

$$3x - (5 - 5x)(2x - 5)(5x - 4)$$
$$50x^3 - 215x^2 + 268x - 100$$

$$x - (1 + 5x)(4x - 3)(x + 6)$$
$$-20x^3 - 109x^2 + 70x + 18$$

$$2x - (4 - 2x)(3x + 5)(5x - 5)$$
$$30x^3 - 40x^2 - 88x + 100$$