



## Polynomial Expansion

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

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

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

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

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

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

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

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

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

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

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

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



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$$(x^2 - 5)(5x - 2) + 6x^2 - 4x - 1$$
$$5x^3 + 4x^2 - 29x + 9$$

$$4x - (3 + 4x)(3x - 4)(6x + 6)$$
$$-72x^3 - 30x^2 + 118x + 72$$

$$4x - (6 - 6x)(5x - 3)(6x + 1)$$
$$180x^3 - 258x^2 + 64x + 18$$

$$(x - 3)(5x + 2)(x + 6)$$
$$5x^3 + 17x^2 - 84x - 36$$

$$(6x^2 - 3)(6x - 4) - 2x^2 - 3x + 4$$
$$36x^3 - 26x^2 - 21x + 16$$

$$(x + 2)(5x - 2)(4x + 4)$$
$$20x^3 + 52x^2 + 16x - 16$$

$$(3x - 2)(2x - 4)(6x - 4)$$
$$36x^3 - 120x^2 + 112x - 32$$

$$(2x - 2)(5x^2 + 4x + 5) - (5x - 2)(x - 6)$$
$$10x^3 - 7x^2 + 34x - 22$$

$$(x^2 - 6)(3x - 6) - 6x^2 + 3x + 1$$
$$3x^3 - 12x^2 - 15x + 37$$

$$(4x^2 - 3x - 5)(6x + 2) + 2 \times 6x + 2$$
$$24x^3 - 10x^2 - 24x - 8$$