Polynomial Expansion

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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

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

$16x^3 - 8x^2 + 11x + 11$

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

$6x^3 + 9x^2 - 2x - 9$

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

$30x^3 + 21x^2 - 145x - 30$

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

$6x^3 - 12x^2 + 16x - 7$

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

$4x^3 + x^2 - 19x - 6$

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

$2x^3 + 22x^2 + 16x - 26$

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

$-72x^3 + 144x^2 + 114x - 50$

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

$18x^3 + 55x^2 + 54x + 24$

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

$20x^3 + 10x^2 - 78x + 31$

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

$12x^3 - 37x^2 - 3x + 18$