Développer avec la double distributivité - CORRECTIONS

Niveau 1

Exercice 1 :

$A = (x+7)(x+9)$ $A = x \times x + x \times 9 + 7 \times x + 7 \times 9$ $A = x^2 + 9x + 7x + 63$ $A = x^2 + 16x + 63$	$B = (2x+5)(3x+8)$ $B = 2x \times 3x + 2x \times 8 + 5 \times 3x + 5 \times 8$ $B = 6x^2 + 16x + 15x + 40$ $B = 6x^2 + 31x + 40$
$C = (x-4)(x-9)$ $C = x \times x + x \times (-9) - 4 \times x - 4 \times (-9)$ $D = x^2 - 9x - 4x + 36$ $D = x^2 - 13x + 36$	$D = (2x-5)(7x+3)$ $D = 2x \times 7x + 2x \times 3 - 5 \times 7x - 5 \times 3$ $D = 14x^2 + 6x - 35x - 15$ $D = 14x^2 - 29x - 15$
$E = (-6x-3)(-2x+5)$ $E = -6x \times (-2x) - 6x \times 5 - 3 \times (-2x) - 3 \times 5$ $E = 12x^2 - 30x + 6x - 15$ $E = 12x^2 - 24x - 15$	$F = (12-4x)(4x-6)$ $F = 12 \times 4x + 12 \times (-6) - 4x \times 4x - 4x \times (-6)$ $F = 48x - 72 - 16x^2 + 24x$ $F = -16x^2 + 48x + 24x - 72$ $F = -16x^2 + 72x - 72$

Exercice 2 :

$(3x+2) \times (5x+6) = 3x \times 5x + 3x \times 6 + 2 \times 5x + 2 \times 6$

$(4+2x) \times (3x+7) = 4 \times 3x + 4 \times 7 + 2x \times 3x + 2x \times 7$

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