Calcul littéral - Fiches d'exercices 2 - Entraînement - Correction

I Développer

$A = 5(x - 6)$
$A = 5x - 30$

$B = 62(2 + 10y)$
$B = 124 + 620y$

$C = 5z(2z + 8)$
$C = 10z^2 + 40z$

$D = 10(0,5x - 25y)$
$D = 5x - 250y$

$E = 5(4 - 5t)$
$E = 20 - 25t$

$F = 7(7x + 9)$
$F = 49x + 63$

$G = 15z(3 - 12a)$
$G = 45z - 180az$

$H = 8(7a - 4y)$
$H = 56a - 32y$

$I = 3y(21y - 7)$
$I = 63y^2 - 21y$

$J = 12b(4x^2 - 6)$
$J = 48bx^2 - 72b$

$K = 12x(2ax - 0,5)$
$K = 24ax^2 - 6x$

$L = 9y(7kb + k)$
$L = 63ykb + 9ky$

II Factoriser

$A = 5x + 35$
$A = 5(x + 7)$

$B = 6x - 18$
$B = 6(x - 3)$

$C = 4yx - 16x$
$C = 4x(y - 4)$

$D = 10z^2 - 100z$
$D = 10z(z - 10)$

$E = 2,5t + 7,5$
$E = 2,5(t + 3)$

$F = 7x - 63x^2$
$F = 7x(1 - 9x)$

$G = 25 - 75x$
$G = 25(1 - 3x)$

$H = 66b^2 - 11b$
$H = 11b(6b - 1)$

$I = 30ya + 24yb$
$I = 6y(5a + 4b)$

$J = x - 86x^2$
$J = x(1 - 86x)$

$K = 20ay + 50yz$
$K = 10y(2a + 5z)$

$L = 36ab^2 - 54by$
$L = 18b(2ab - 3y)$

III Réduction

$A = 20x + 7 + 9x + 7 + 4 + 6x$
$A = 35x + 18$

$B = 6x + 8y + 5x + 9x + 2y + 13x$
$B = 33x + 10y$

$C = 5x + 6y + 9 + 3y + 10 + 2x + y$
$C = 7x + 10y + 19$

$D = 15ab + 10 + 3y + 9ab + 12 + 6y$
$D = 24ab + 9y + 22$

$E = 25 + 6x - 8 + 5y - 5 - 4x - 15y$
$E = 2x - 10y + 12$

$F = 40y + 7 - 15 + 8x - 10y - 9x + 5 - 4y$
$F = -x + 26y - 3$

$G = 4(2 + 3x) + 7x - 10y + 6x - 12$
$G = 8 + 12x + 7x - 10y + 6x + 8y - 12$
$G = 13x - 2y - 4$

$H = 100 - 5bx + 6x(3b - 10) + 30 - 15bx$
$H = 100 - 5bx + 18xb - 60x + 30 - 15bx$
$H = -2bx - 60x + 130$