

Distributivité :

Enoncé commun à tous les exercices : Développer puis réduire.

Exercice 1 : +, - devant une parenthèse.

$A = -(-9x + 5)$	$G = -(-8x + 2) - 9x - 3$	$M = 8x + 9 - (-10x - 1)$
$B = (-3x + 8)$	$H = -8x + (-9x - 6) - 5$	$N = 4 - (-6x - 6) - 4x$
$C = 3x + 6 - (6x + 1)$	$I = -9x - (6x + 4) - 2$	$O = -5x + 7 + (x + 9)$
$D = -6 + 2x + (-9x + 5)$	$J = -5 - 3x - (-4x + 2)$	$P = -3 - 6x - (-2x - 10)$
$E = -(-7x + 6) + 8 + 6x$	$K = 9x - (-10x - 8) + 10$	$Q = -7x + (-9x - 8) - 3$
$F = -8x - (6x - 10) + 6$	$L = (10x + 3) + 6x - 10$	$R = -2 - (7x - 2) + 2x$

Exercice 2 : Simple distributivité : $k \times (a + b)$.

$A = 9 \times (x - 7)$	$G = (-5x + 2) \times 6 + 7$	$M = 10 + 3 \times (-5x - 3)$
$B = 10 \times (5x + 1) - 2x - 9$	$H = 6 \times (-6x - 7) - 8x$	$N = -5x + 7 \times (7x + 5)$
$C = 7 + (7x + 9) \times 3$	$I = 6 \times (4x + 6) - 6x - 9$	$O = 10x + 10 + 4 \times (8x - 8)$
$D = 6x + 10 + (7x + 8) \times 3$	$J = 1 + (-10x + 10) \times 10$	$P = -9 + (-4x + 4) \times 2$
$E = -8 + 6 \times (-7x + 2)$	$K = 2x + 2 \times (-5x - 9)$	$Q = 5 \times (-9x + 8) + 8x$
$F = (-7x - 3) \times 9 + 9x$	$L = -2x + 1 + 4 \times (-8x - 9)$	$R = -3 + 8 \times (-2x + 4)$

Exercice 3 : Double distributivité : $(a + b)(c + d)$.

$A = (-10x - 2) \times (-4x - 10) + 7x - 3$	$J = -10x - 6 + (-5x + 3) \times (10x - 5)$
$B = 9 + (3x - 4) \times (6x - 5)$	$K = 4x^2 + (-2x - 3) \times (3x - 6)$
$C = (6x - 5) \times (6x - 3) - 10x^2$	$L = (7x + 8) \times (-4x + 4) - 1$
$D = (3x - 5) \times (-10x + 5) + 9x + 3$	$M = -6 + (-6x + 1) \times (-3x + 8)$
$E = 5 + (5x + 5) \times (-4x + 5)$	$N = -8x^2 + (4x + 5) \times (3x + 9)$
$F = (6x - 1) \times (x - 4) - 2x^2$	$O = 7x - 2 + (2x - 1) \times (-3x + 7)$
$G = -6x + 7 + (-6x + 9) \times (-5x - 10)$	$P = -6x + 7 + (-6x + 9) \times (-5x - 10)$
$H = 5x^2 + (6x + 1) \times (-8x - 2)$	$Q = 5x^2 + (6x + 1) \times (-8x - 2)$
$I = 3 + (9x - 6) \times (-9x - 7)$	$R = 3 + (9x - 6) \times (-9x - 7)$

Exercice 4 : Identités remarquables : $(a + b)^2$; $(a - b)^2$; $(a + b)(a - b)$.

$A = (6x + 1) \times (6x - 1)$	$G = (8x + 2) \times (2x - 8)$	$M = (2x - 5) \times (5x + 2)$
$B = (x - 10)^2$	$H = (5x + 2)^2$	$N = (5x - 10) \times (5x + 10)$
$C = (10x + 2)^2$	$I = -(3x - 10)^2$	$O = -(7x + 4)^2$
$D = (3x - 1)^2$	$J = (7x - 5)^2$	$P = (6x - 7) \times (6x + 7)$
$E = -(5x - 6)^2$	$K = (6x + 1) \times (x - 6)$	$Q = (3x - 6)^2$
$F = (9x + 8) \times (9x - 8)$	$L = (3x + 10)^2$	$R = (4x + 8)^2$

Exercice 5 : Mélange.

$A = -(7x - 8) + 4x - 7$	$M = (x + 4)^2$	$Y = -(4x + 1)^2$
$B = 10 + (-x - 9) \times 10$	$N = -7x + 4 + 9 \times (4x - 5)$	$Z = 10 + (-x - 9) \times 10$
$C = (x + 4)^2$	$O = -(4x + 1)^2$	$AA = 9 + 7x - (-2x - 4)$
$D = 3x + (-8x + 6) + 7$	$P = (8x + 4) \times (4x - 8)$	$AB = (8x - 7)^2$
$E = (8x - 7)^2$	$Q = -10x - 9 - (x + 8)$	$AC = 9x + 2 \times (4x - 6)$
$F = (3x + 9) \times (3x - 9)$	$R = (8x - 7)^2$	$AD = (3x + 9) \times (3x - 9)$
$G = 8 + 5x + (-3x - 8)$	$S = 9x^2 + (-10x + 5) \times (2x + 7)$	$AE = (8x + 1) \times (-5x - 8) - 10x^2$
$H = x + (10x - 8) \times 3$	$T = -6x - 9 - (x + 6)$	$AF = (4x + 2) \times (4x - 2)$
$I = (8x - 7)^2$	$U = 8 \times (x + 9) - 2x - 8$	$AG = -2 - (-3x + 9) - 10x$
$J = -(-6x + 2) + 8 + 6x$	$V = (7x + 1)^2$	$AH = 3 + (-3x - 4) \times (-10x + 9)$
$K = (6x - 9) \times (9x - 3) - 9x^2$	$W = (-10x + 3) + 7x + 9$	$AI = (3x + 3) \times 2 + 6$
$L = -(2x - 5) \times (2x + 5)$	$X = (7x - 8) \times (8x + 7)$	$AJ = 2 - (-10x + 5) + 8x$