Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$A = (-7\,x + 2) + 4 - 10\,x$
$A = -7\,x + 2 - 10\,x + 4$
$A = -7\,x - 10\,x + 2 + 4$
$A = (-7 - 10)\,x + 6$
$\boxed{A = -17\,x + 6}$

$B = -3\,x - (-6\,x - 9) + 6$
$B = -3\,x + 6\,x + 9 + 6$
$B = (-3 + 6)\,x + 15$
$\boxed{B = 3\,x + 15}$

$C = -9 - 6\,x - (4\,x - 5)$
$C = -6\,x - 9 - (4\,x - 5)$
$C = -6\,x - 9 - 4\,x + 5$
$C = -6\,x - 4\,x - 9 + 5$
$C = (-6 - 4)\,x - 4$
$\boxed{C = -10\,x - 4}$

$D = -(6\,x - 3) - 2\,x + 6$
$D = -6\,x + 3 - 2\,x + 6$
$D = -6\,x - 2\,x + 3 + 6$
$D = (-6 - 2)\,x + 9$
$\boxed{D = -8\,x + 9}$

$E = -(7\,x + 2) + 4\,x - 4$
$E = -7\,x - 2 + 4\,x - 4$
$E = -7\,x + 4\,x - 2 - 4$
$E = (-7 + 4)\,x - 6$
$\boxed{E = -3\,x - 6}$

$F = 3\,x + (-10\,x - 1) - 7$
$F = 3\,x - 10\,x - 1 - 7$
$F = (3 - 10)\,x - 8$
$\boxed{F = -7\,x - 8}$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$A = 4\,x - 5 - (4\,x - 3)$
$A = 4\,x - 5 - 4\,x + 3$
$A = 4\,x - 4\,x - 5 + 3$
$A = (4 - 4)\,x - 2$
$\boxed{A = -2}$

$B = -8 - 6\,x + (-4\,x + 7)$
$B = -6\,x - 8 - 4\,x + 7$
$B = -6\,x - 4\,x - 8 + 7$
$B = (-6 - 4)\,x - 1$
$\boxed{B = -10\,x - 1}$

$C = (3\,x + 3) - 6 - 4\,x$
$C = 3\,x + 3 - 4\,x - 6$
$C = 3\,x - 4\,x + 3 - 6$
$C = (3 - 4)\,x - 3$
$\boxed{C = -x - 3}$

$D = -10 - 3\,x - (-4\,x + 7)$

$D = -3\,x - 10 - (-4\,x + 7)$
$D = -3\,x - 10 + 4\,x - 7$
$D = -3\,x + 4\,x - 10 - 7$
$D = (-3 + 4)\,x - 17$
$\boxed{D = x - 17}$

$E = 7 + 9\,x - (2\,x + 4)$
$E = 9\,x + 7 - (2\,x + 4)$
$E = 9\,x + 7 - 2\,x - 4$
$E = 9\,x - 2\,x + 7 - 4$
$E = (9 - 2)\,x + 3$
$\boxed{E = 7\,x + 3}$

$F = 10\,x - (-6\,x + 3) + 4$
$F = 10\,x + 6\,x - 3 + 4$
$F = (10 + 6)\,x + 1$
$\boxed{F = 16\,x + 1}$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$A = -(6\,x + 6) - 5\,x - 4$
$A = -6\,x - 6 - 5\,x - 4$
$A = -6\,x - 5\,x - 6 - 4$
$A = (-6 - 5)\,x - 10$
$\boxed{A = -11\,x - 10}$

$B = -10\,x - (-5\,x + 1) - 5$
$B = -10\,x + 5\,x - 1 - 5$
$B = (-10 + 5)\,x - 6$
$\boxed{B = -5\,x - 6}$

$C = 8 + (-10\,x - 9) - 2\,x$
$C = 8 - 10\,x - 9 - 2\,x$
$C = -10\,x - 2\,x + 8 - 9$
$C = (-10 - 2)\,x - 1$
$\boxed{C = -12\,x - 1}$

$D = -3 + (-10\,x - 1) - 8\,x$

$D = -3 - 10\,x - 1 - 8\,x$
$D = -10\,x - 8\,x - 3 - 1$
$D = (-10 - 8)\,x - 4$
$\boxed{D = -18\,x - 4}$

$E = -6\,x - 6 - (-9\,x + 5)$
$E = -6\,x - 6 + 9\,x - 5$
$E = -6\,x + 9\,x - 6 - 5$
$E = (-6 + 9)\,x - 11$
$\boxed{E = 3\,x - 11}$

$F = 5\,x + 5 - (3\,x - 3)$
$F = 5\,x + 5 - 3\,x + 3$
$F = 5\,x - 3\,x + 5 + 3$
$F = (5 - 3)\,x + 8$
$\boxed{F = 2\,x + 8}$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$A = -4 - 6\,x - (-5\,x - 9)$
$A = -6\,x - 4 - (-5\,x - 9)$
$A = -6\,x - 4 + 5\,x + 9$
$A = -6\,x + 5\,x - 4 + 9$
$A = (-6 + 5)\,x + 5$
$\boxed{A = -x + 5}$

$B = 10 - 7\,x - (-7\,x + 8)$
$B = -7\,x + 10 - (-7\,x + 8)$
$B = -7\,x + 10 + 7\,x - 8$
$B = -7\,x + 7\,x + 10 - 8$
$B = (-7 + 7)\,x + 2$
$\boxed{B = 2}$

$C = (6\,x - 2) + 2 + 3\,x$
$C = 6\,x - 2 + 3\,x + 2$
$C = 6\,x + 3\,x - 2 + 2$
$C = (6 + 3)\,x$
$\boxed{C = 9\,x}$

$D = -(6\,x + 4) - 10 - 7\,x$
$D = -6\,x - 4 - 10 - 7\,x$
$D = -6\,x - 7\,x - 4 - 10$
$D = (-6 - 7)\,x - 14$
$\boxed{D = -13\,x - 14}$

$E = -3\,x - 9 - (3\,x - 3)$
$E = -3\,x - 9 - 3\,x + 3$
$E = -3\,x - 3\,x - 9 + 3$
$E = (-3 - 3)\,x - 6$
$\boxed{E = -6\,x - 6}$

$F = -4 + (-5\,x - 10) + 4\,x$
$F = -4 - 5\,x - 10 + 4\,x$
$F = -5\,x + 4\,x - 4 - 10$
$F = (-5 + 4)\,x - 14$
$\boxed{F = -x - 14}$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$A = -2\,x + (3\,x + 1) - 4$
$A = -2\,x + 3\,x + 1 - 4$
$A = (-2 + 3)\,x - 3$
$\boxed{A = x - 3}$

$B = 2 - (9\,x + 10) - 5\,x$
$B = 2 - 9\,x - 10 - 5\,x$
$B = -9\,x - 5\,x + 2 - 10$
$B = (-9 - 5)\,x - 8$
$\boxed{B = -14\,x - 8}$

$C = -(-5\,x + 9) + 4 + 9\,x$
$C = 5\,x - 9 + 4 + 9\,x$
$C = 5\,x + 9\,x - 9 + 4$
$C = (5 + 9)\,x - 5$
$\boxed{C = 14\,x - 5}$

$D = 6\,x + (-5\,x - 6) + 7$
$D = 6\,x - 5\,x - 6 + 7$
$D = (6 - 5)\,x + 1$
$\boxed{D = x + 1}$

$E = -4 - (10\,x + 6) + 4\,x$
$E = -4 - 10\,x - 6 + 4\,x$
$E = -10\,x + 4\,x - 4 - 6$
$E = (-10 + 4)\,x - 10$
$\boxed{E = -6\,x - 10}$

$F = 9\,x + 3 - (6\,x + 8)$
$F = 9\,x + 3 - 6\,x - 8$
$F = 9\,x - 6\,x + 3 - 8$
$F = (9 - 6)\,x - 5$
$\boxed{F = 3\,x - 5}$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$A = 5 - (-8\,x + 9) + 2\,x$
$A = 5 + 8\,x - 9 + 2\,x$
$A = 8\,x + 2\,x + 5 - 9$
$A = (8 + 2)\,x - 4$
$\boxed{A = 10\,x - 4}$

$B = 9\,x - 5 - (-4\,x - 4)$
$B = 9\,x - 5 + 4\,x + 4$
$B = 9\,x + 4\,x - 5 + 4$
$B = (9 + 4)\,x - 1$
$\boxed{B = 13\,x - 1}$

$C = -6 - 7\,x + (8\,x + 6)$
$C = -7\,x - 6 + 8\,x + 6$
$C = -7\,x + 8\,x - 6 + 6$
$C = (-7 + 8)\,x$
$\boxed{C = x}$

$D = -4 + (-6\,x + 4) + 9\,x$

$D = -4 - 6\,x + 4 + 9\,x$
$D = -6\,x + 9\,x - 4 + 4$
$D = (-6 + 9)\,x$
$\boxed{D = 3\,x}$

$E = -10 - 5\,x - (2\,x + 10)$
$E = -5\,x - 10 - (2\,x + 10)$
$E = -5\,x - 10 - 2\,x - 10$
$E = -5\,x - 2\,x - 10 - 10$
$E = (-5 - 2)\,x - 20$
$\boxed{E = -7\,x - 20}$

$F = -(-7\,x - 3) + 8 + 9\,x$
$F = 7\,x + 3 + 8 + 9\,x$
$F = 7\,x + 9\,x + 3 + 8$
$F = (7 + 9)\,x + 11$
$\boxed{F = 16\,x + 11}$