Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$A = -10\,x - 4 - (10\,x - 6)$
$A = -10\,x - 4 - 10\,x + 6$
$A = -10\,x - 10\,x - 4 + 6$
$A = (-10 - 10)\,x + 2$
$\boxed{A = -20\,x + 2}$

$B = 10\,x - (10\,x + 10) - 6$
$B = 10\,x - 10\,x - 10 - 6$
$B = (10 - 10)\,x - 16$
$\boxed{B = -16}$

$C = -6 - 7\,x + (3\,x + 7)$
$C = -7\,x - 6 + 3\,x + 7$
$C = -7\,x + 3\,x - 6 + 7$
$C = (-7 + 3)\,x + 1$
$\boxed{C = -4\,x + 1}$

$D = 4\,x + (-9\,x + 9) + 9$
$D = 4\,x - 9\,x + 9 + 9$
$D = (4 - 9)\,x + 18$
$\boxed{D = -5\,x + 18}$

$E = -7 - 8\,x - (6\,x + 10)$
$E = -8\,x - 7 - (6\,x + 10)$
$E = -8\,x - 7 - 6\,x - 10$
$E = -8\,x - 6\,x - 7 - 10$
$E = (-8 - 6)\,x - 17$
$\boxed{E = -14\,x - 17}$

$F = -4\,x - (4\,x - 9) + 5$
$F = -4\,x - 4\,x + 9 + 5$
$F = (-4 - 4)\,x + 14$
$\boxed{F = -8\,x + 14}$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$A = 5 - 3\,x - (-9\,x - 9)$
$A = -3\,x + 5 - (-9\,x - 9)$
$A = -3\,x + 5 + 9\,x + 9$
$A = -3\,x + 9\,x + 5 + 9$
$A = (-3 + 9)\,x + 14$
$\boxed{A = 6\,x + 14}$

$B = -(10\,x + 4) + 4\,x - 7$
$B = -10\,x - 4 + 4\,x - 7$
$B = -10\,x + 4\,x - 4 - 7$
$B = (-10 + 4)\,x - 11$
$\boxed{B = -6\,x - 11}$

$C = -(-8\,x - 10) - 7 - 3\,x$
$C = 8\,x + 10 - 7 - 3\,x$
$C = 8\,x - 3\,x + 10 - 7$
$C = (8 - 3)\,x + 3$
$\boxed{C = 5\,x + 3}$

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

$E = -(-2\,x - 4) - 9\,x - 10$
$E = 2\,x + 4 - 9\,x - 10$
$E = 2\,x - 9\,x + 4 - 10$
$E = (2 - 9)\,x - 6$
$\boxed{E = -7\,x - 6}$

$F = -8 + (-2\,x - 4) - 7\,x$
$F = -8 - 2\,x - 4 - 7\,x$
$F = -2\,x - 7\,x - 8 - 4$
$F = (-2 - 7)\,x - 12$
$\boxed{F = -9\,x - 12}$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$A = -(10\,x + 4) + 7 - 9\,x$
$A = -10\,x - 4 + 7 - 9\,x$
$A = -10\,x - 9\,x - 4 + 7$
$A = (-10 - 9)\,x + 3$

$\boxed{A = -19\,x + 3}$

$B = -(-6\,x - 2) + 10\,x + 8$
$B = 6\,x + 2 + 10\,x + 8$

$B = 6\,x + 10\,x + 2 + 8$
$B = (6 + 10)\ x + 10$
$\boxed{B = 16\,x + 10}$

$C = -2\,x + (8\,x - 9) + 5$
$C = -2\,x + 8\,x - 9 + 5$
$C = (-2 + 8)\ x - 4$
$\boxed{C = 6\,x - 4}$

$D = 8 - 8\,x + (x - 10)$
$D = -8\,x + 8 + x - 10$
$D = -8\,x + x + 8 - 10$
$D = (-8 + 1)\ x - 2$

$\boxed{D = -7\,x - 2}$

$E = 8\,x + 10 - (5\,x - 4)$
$E = 8\,x + 10 - 5\,x + 4$
$E = 8\,x - 5\,x + 10 + 4$
$E = (8 - 5)\ x + 14$
$\boxed{E = 3\,x + 14}$

$F = -\,(-10\,x + 10) - 10 - 7\,x$
$F = 10\,x - 10 - 10 - 7\,x$
$F = 10\,x - 7\,x - 10 - 10$
$F = (10 - 7)\ x - 20$
$\boxed{F = 3\,x - 20}$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$A = -10 + 3\,x - (8\,x - 4)$
$A = 3\,x - 10 - (8\,x - 4)$
$A = 3\,x - 10 - 8\,x + 4$
$A = 3\,x - 8\,x - 10 + 4$
$A = (3 - 8)\ x - 6$
$\boxed{A = -5\,x - 6}$

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

$C = -8\,x - (4\,x + 4) - 7$
$C = -8\,x - 4\,x - 4 - 7$
$C = (-8 - 4)\ x - 11$
$\boxed{C = -12\,x - 11}$

$D = (10\,x - 9) - 7 + 6\,x$
$D = 10\,x - 9 + 6\,x - 7$
$D = 10\,x + 6\,x - 9 - 7$
$D = (10 + 6)\ x - 16$
$\boxed{D = 16\,x - 16}$

$E = 10\,x + 9 + (-7\,x + 9)$
$E = 10\,x + 9 - 7\,x + 9$
$E = 10\,x - 7\,x + 9 + 9$
$E = (10 - 7)\ x + 18$
$\boxed{E = 3\,x + 18}$

$F = -3\,x - (-9\,x + 8) - 3$
$F = -3\,x + 9\,x - 8 - 3$
$F = (-3 + 9)\ x - 11$
$\boxed{F = 6\,x - 11}$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

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

$B = -8\,x - (-7\,x - 2) - 4$
$B = -8\,x + 7\,x + 2 - 4$
$B = (-8 + 7)\ x - 2$
$\boxed{B = -x - 2}$

$C = -4\,x + 9 - (6\,x - 4)$
$C = -4\,x + 9 - 6\,x + 4$
$C = -4\,x - 6\,x + 9 + 4$
$C = (-4 - 6)\ x + 13$
$\boxed{C = -10\,x + 13}$

$D = (-2\,x + 2) - 10\,x + 3$
$D = -2\,x + 2 - 10\,x + 3$
$D = -2\,x - 10\,x + 2 + 3$

$D = (-2 - 10)\,x + 5$

$\boxed{D = -12\,x + 5}$

$E = 10\,x + (-5\,x + 7) - 3$
$E = 10\,x - 5\,x + 7 - 3$
$E = (10 - 5)\,x + 4$

$\boxed{E = 5\,x + 4}$

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

$\boxed{F = -14\,x - 10}$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$A = -4\,x - (-4\,x + 7) - 6$
$A = -4\,x + 4\,x - 7 - 6$
$A = (-4 + 4)\,x - 13$

$\boxed{A = -13}$

$B = 10\,x + 3 + (-7\,x - 5)$
$B = 10\,x + 3 - 7\,x - 5$
$B = 10\,x - 7\,x + 3 - 5$
$B = (10 - 7)\,x - 2$

$\boxed{B = 3\,x - 2}$

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

$\boxed{C = 10}$

$D = 4 + (-9\,x + 6) + 10\,x$
$D = 4 - 9\,x + 6 + 10\,x$

$D = -9\,x + 10\,x + 4 + 6$
$D = (-9 + 10)\,x + 10$

$\boxed{D = x + 10}$

$E = -10 - 9\,x - (-2\,x - 1)$
$E = -9\,x - 10 - (-2\,x - 1)$
$E = -9\,x - 10 + 2\,x + 1$
$E = -9\,x + 2\,x - 10 + 1$
$E = (-9 + 2)\,x - 9$

$\boxed{E = -7\,x - 9}$

$F = 9 - 6\,x - (3\,x - 2)$
$F = -6\,x + 9 - (3\,x - 2)$
$F = -6\,x + 9 - 3\,x + 2$
$F = -6\,x - 3\,x + 9 + 2$
$F = (-6 - 3)\,x + 11$

$\boxed{F = -9\,x + 11}$