Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$A = -(-2\,x + 2) + 3\,x + 9$
$A = 2\,x - 2 + 3\,x + 9$
$A = 2\,x + 3\,x - 2 + 9$
$A = (2 + 3)\,x + 7$

$$\boxed{A = 5\,x + 7}$$

$B = -6\,x - (-7\,x + 8) + 2$
$B = -6\,x + 7\,x - 8 + 2$
$B = (-6 + 7)\,x - 6$

$$\boxed{B = x - 6}$$

$C = -(5\,x - 1) + 2 - 3\,x$
$C = -5\,x + 1 + 2 - 3\,x$
$C = -5\,x - 3\,x + 1 + 2$
$C = (-5 - 3)\,x + 3$

$$\boxed{C = -8\,x + 3}$$

$D = -5 - 7\,x + (2\,x + 2)$

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

$$\boxed{D = -5\,x - 3}$$

$E = -(8\,x + 8) - 9\,x - 6$
$E = -8\,x - 8 - 9\,x - 6$
$E = -8\,x - 9\,x - 8 - 6$
$E = (-8 - 9)\,x - 14$

$$\boxed{E = -17\,x - 14}$$

$F = (-4\,x - 9) + 3\,x + 8$
$F = -4\,x - 9 + 3\,x + 8$
$F = -4\,x + 3\,x - 9 + 8$
$F = (-4 + 3)\,x - 1$

$$\boxed{F = -x - 1}$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$A = -(5\,x - 8) - 6 - 7\,x$
$A = -5\,x + 8 - 6 - 7\,x$
$A = -5\,x - 7\,x + 8 - 6$
$A = (-5 - 7)\,x + 2$

$$\boxed{A = -12\,x + 2}$$

$B = 9\,x + (6\,x + 1) - 10$
$B = 9\,x + 6\,x + 1 - 10$
$B = (9 + 6)\,x - 9$

$$\boxed{B = 15\,x - 9}$$

$C = 6\,x - (-10\,x - 4) - 8$
$C = 6\,x + 10\,x + 4 - 8$
$C = (6 + 10)\,x - 4$

$$\boxed{C = 16\,x - 4}$$

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

$D = 6\,x + 6\,x - 4 + 9$
$D = (6 + 6)\,x + 5$

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

$E = 5\,x - 7 - (-7\,x - 1)$
$E = 5\,x - 7 + 7\,x + 1$
$E = 5\,x + 7\,x - 7 + 1$
$E = (5 + 7)\,x - 6$

$$\boxed{E = 12\,x - 6}$$

$F = 6 - (10\,x - 2) - 4\,x$
$F = 6 - 10\,x + 2 - 4\,x$
$F = -10\,x - 4\,x + 6 + 2$
$F = (-10 - 4)\,x + 8$

$$\boxed{F = -14\,x + 8}$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$A = -10 + 7\,x - (4\,x - 6)$
$A = 7\,x - 10 - (4\,x - 6)$
$A = 7\,x - 10 - 4\,x + 6$
$A = 7\,x - 4\,x - 10 + 6$
$A = (7 - 4)\,x - 4$

$$\boxed{A = 3\,x - 4}$$

$B = -3\,x - (-6\,x - 9) + 9$
$B = -3\,x + 6\,x + 9 + 9$
$B = (-3 + 6)\,x + 18$

$$\boxed{B = 3\,x + 18}$$

$C = -5 - 5\,x + (-6\,x - 10)$
$C = -5\,x - 5 - 6\,x - 10$
$C = -5\,x - 6\,x - 5 - 10$
$C = (-5 - 6)\,x - 15$

$$\boxed{C = -11\,x - 15}$$

$D = 9\,x - (6\,x + 1) - 10$
$D = 9\,x - 6\,x - 1 - 10$
$D = (9 - 6)\,x - 11$

$$\boxed{D = 3\,x - 11}$$

$E = (8\,x + 8) + 10\,x + 10$
$E = 8\,x + 8 + 10\,x + 10$
$E = 8\,x + 10\,x + 8 + 10$
$E = (8 + 10)\,x + 18$

$$\boxed{E = 18\,x + 18}$$

$F = 7\,x + 10 - (-7\,x + 5)$
$F = 7\,x + 10 + 7\,x - 5$
$F = 7\,x + 7\,x + 10 - 5$
$F = (7 + 7)\,x + 5$

$$\boxed{F = 14\,x + 5}$$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$A = -(4\,x + 1) + 7 + 7\,x$
$A = -4\,x - 1 + 7 + 7\,x$
$A = -4\,x + 7\,x - 1 + 7$
$A = (-4 + 7)\,x + 6$

$$\boxed{A = 3\,x + 6}$$

$B = -6 + 2\,x + (x + 9)$
$B = 2\,x - 6 + x + 9$
$B = 2\,x + x - 6 + 9$
$B = (2 + 1)\,x + 3$

$$\boxed{B = 3\,x + 3}$$

$C = -(-8\,x + 5) + 4 - 3\,x$
$C = 8\,x - 5 + 4 - 3\,x$
$C = 8\,x - 3\,x - 5 + 4$
$C = (8 - 3)\,x - 1$

$$\boxed{C = 5\,x - 1}$$

$D = 5 - (5\,x + 4) + 4\,x$
$D = 5 - 5\,x - 4 + 4\,x$
$D = -5\,x + 4\,x + 5 - 4$
$D = (-5 + 4)\,x + 1$

$$\boxed{D = -x + 1}$$

$E = 5 - 6\,x + (-9\,x - 4)$
$E = -6\,x + 5 - 9\,x - 4$
$E = -6\,x - 9\,x + 5 - 4$
$E = (-6 - 9)\,x + 1$

$$\boxed{E = -15\,x + 1}$$

$F = -(-5\,x - 4) - 2\,x - 3$
$F = 5\,x + 4 - 2\,x - 3$
$F = 5\,x - 2\,x + 4 - 3$
$F = (5 - 2)\,x + 1$

$$\boxed{F = 3\,x + 1}$$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$A = -8 + (9\,x - 3) + 3\,x$
$A = -8 + 9\,x - 3 + 3\,x$
$A = 9\,x + 3\,x - 8 - 3$
$A = (9 + 3)\,x - 11$

$$\boxed{A = 12\,x - 11}$$

$B = -5\,x + 6 - (4\,x - 9)$

$B = -5\,x + 6 - 4\,x + 9$
$B = -5\,x - 4\,x + 6 + 9$
$B = (-5 - 4)\,x + 15$

$$\boxed{B = -9\,x + 15}$$

$C = 2\,x - (9\,x + 2) - 10$
$C = 2\,x - 9\,x - 2 - 10$
$C = (2 - 9)\,x - 12$

$$\boxed{C = -7\,x - 12}$$

$D = -2 + (-5\,x + 8) + 6\,x$
$D = -2 - 5\,x + 8 + 6\,x$
$D = -5\,x + 6\,x - 2 + 8$
$D = (-5 + 6)\,x + 6$

$$\boxed{D = x + 6}$$

$E = -(-9\,x - 4) + 10\,x - 3$
$E = 9\,x + 4 + 10\,x - 3$
$E = 9\,x + 10\,x + 4 - 3$
$E = (9 + 10)\,x + 1$

$$\boxed{E = 19\,x + 1}$$

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

$$\boxed{F = 8\,x - 6}$$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$A = -(4\,x - 1) - 2 - 9\,x$
$A = -4\,x + 1 - 2 - 9\,x$
$A = -4\,x - 9\,x + 1 - 2$
$A = (-4 - 9)\,x - 1$

$$\boxed{A = -13\,x - 1}$$

$B = -(-6\,x - 2) - 3\,x - 5$
$B = 6\,x + 2 - 3\,x - 5$
$B = 6\,x - 3\,x + 2 - 5$
$B = (6 - 3)\,x - 3$

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

$C = -4 - (x + 9) - 6\,x$
$C = -4 - x - 9 - 6\,x$
$C = -x - 6\,x - 4 - 9$
$C = (-1 - 6)\,x - 13$

$$\boxed{C = -7\,x - 13}$$

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

$$\boxed{D = -7\,x - 10}$$

$E = 6 + 4\,x + (-4\,x + 6)$
$E = 4\,x + 6 - 4\,x + 6$
$E = 4\,x - 4\,x + 6 + 6$
$E = (4 - 4)\,x + 12$

$$\boxed{E = 12}$$

$F = 9 - (-4\,x - 10) - 7\,x$
$F = 9 + 4\,x + 10 - 7\,x$
$F = 4\,x - 7\,x + 9 + 10$
$F = (4 - 7)\,x + 19$

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