Corrigé de l'exercice 1

Réduire chacune des expressions littérales suivantes :

$A = 6\,x + (-2\,x + 1) - 9$
$A = 6\,x - 2\,x + 1 - 9$
$A = (6 - 2)\,x - 8$

$$\boxed{A = 4\,x - 8}$$

$B = 8\,x - (-4\,x + 10) - 6$
$B = 8\,x + 4\,x - 10 - 6$
$B = (8 + 4)\,x - 16$

$$\boxed{B = 12\,x - 16}$$

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

$$\boxed{C = -15\,x + 5}$$

$D = -3 + 7\,x - (-5\,x + 6)$

$D = 7\,x - 3 - (-5\,x + 6)$
$D = 7\,x - 3 + 5\,x - 6$
$D = 7\,x + 5\,x - 3 - 6$
$D = (7 + 5)\,x - 9$

$$\boxed{D = 12\,x - 9}$$

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

$$\boxed{E = 3\,x + 8}$$

$F = 3\,x - (-10\,x - 10) + 8$
$F = 3\,x + 10\,x + 10 + 8$
$F = (3 + 10)\,x + 18$

$$\boxed{F = 13\,x + 18}$$

Corrigé de l'exercice 2

Réduire chacune des expressions littérales suivantes :

$A = (-7\,x + 8) + 7 + 7\,x$
$A = -7\,x + 8 + 7\,x + 7$
$A = -7\,x + 7\,x + 8 + 7$
$A = (-7 + 7)\,x + 15$

$$\boxed{A = 15}$$

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

$$\boxed{B = -2\,x - 4}$$

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

$$\boxed{C = 15}$$

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

$$\boxed{D = -13}$$

$E = -2\,x - (-5\,x - 6) + 7$
$E = -2\,x + 5\,x + 6 + 7$
$E = (-2 + 5)\,x + 13$

$$\boxed{E = 3\,x + 13}$$

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

$$\boxed{F = -6}$$

Corrigé de l'exercice 3

Réduire chacune des expressions littérales suivantes :

$A = -9 + 7x + (-7x - 2)$
$A = 7x - 9 - 7x - 2$
$A = 7x - 7x - 9 - 2$
$A = (7 - 7)x - 11$

$\boxed{A = -11}$

$B = -6x + 9 + (-8x - 9)$
$B = -6x + 9 - 8x - 9$
$B = -6x - 8x + 9 - 9$
$B = (-6 - 8)x$

$\boxed{B = -14x}$

$C = 4 - (9x - 2) + 4x$
$C = 4 - 9x + 2 + 4x$
$C = -9x + 4x + 4 + 2$
$C = (-9 + 4)x + 6$

$\boxed{C = -5x + 6}$

$D = -(-3x - 3) + 6 + 2x$
$D = 3x + 3 + 6 + 2x$
$D = 3x + 2x + 3 + 6$
$D = (3 + 2)x + 9$

$\boxed{D = 5x + 9}$

$E = -(8x + 6) + 8 - 10x$
$E = -8x - 6 + 8 - 10x$
$E = -8x - 10x - 6 + 8$
$E = (-8 - 10)x + 2$

$\boxed{E = -18x + 2}$

$F = -(x - 4) - 4 + 4x$
$F = -x + 4 - 4 + 4x$
$F = -x + 4x + 4 - 4$
$F = (-1 + 4)x$

$\boxed{F = 3x}$

Corrigé de l'exercice 4

Réduire chacune des expressions littérales suivantes :

$A = 2x - (-4x + 10) + 4$
$A = 2x + 4x - 10 + 4$
$A = (2 + 4)x - 6$

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

$B = -9x + (-8x + 4) - 5$
$B = -9x - 8x + 4 - 5$
$B = (-9 - 8)x - 1$

$\boxed{B = -17x - 1}$

$C = 8 - 4x - (5x + 4)$
$C = -4x + 8 - (5x + 4)$
$C = -4x + 8 - 5x - 4$
$C = -4x - 5x + 8 - 4$
$C = (-4 - 5)x + 4$

$\boxed{C = -9x + 4}$

$D = -3 - (-3x + 8) - 8x$
$D = -3 + 3x - 8 - 8x$
$D = 3x - 8x - 3 - 8$
$D = (3 - 8)x - 11$

$\boxed{D = -5x - 11}$

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

$\boxed{E = -3x + 10}$

$F = 10x + (-4x - 6) + 5$
$F = 10x - 4x - 6 + 5$
$F = (10 - 4)x - 1$

$\boxed{F = 6x - 1}$

Corrigé de l'exercice 5

Réduire chacune des expressions littérales suivantes :

$A = 7x - (-8x + 5) - 8$
$A = 7x + 8x - 5 - 8$
$A = (7 + 8)x - 13$

$\boxed{A = 15x - 13}$

$B = (4x + 7) + 2x + 3$
$B = 4x + 7 + 2x + 3$
$B = 4x + 2x + 7 + 3$
$B = (4 + 2)x + 10$

$$\boxed{B = 6\,x + 10}$$

$C = -\,(x - 10) - 5\,x - 3$
$C = -x + 10 - 5\,x - 3$
$C = -x - 5\,x + 10 - 3$
$C = (-1 - 5)\,x + 7$

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

$D = -\,(-5\,x + 7) + 7\,x - 10$
$D = 5\,x - 7 + 7\,x - 10$
$D = 5\,x + 7\,x - 7 - 10$
$D = (5 + 7)\,x - 17$

$$\boxed{D = 12\,x - 17}$$

$E = -\,(8\,x - 4) - 9 - 3\,x$
$E = -8\,x + 4 - 9 - 3\,x$
$E = -8\,x - 3\,x + 4 - 9$
$E = (-8 - 3)\,x - 5$

$$\boxed{E = -11\,x - 5}$$

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

$$\boxed{F = -6\,x - 7}$$

Corrigé de l'exercice 6

Réduire chacune des expressions littérales suivantes :

$A = -\,(9\,x + 6) - 7\,x + 10$
$A = -9\,x - 6 - 7\,x + 10$
$A = -9\,x - 7\,x - 6 + 10$
$A = (-9 - 7)\,x + 4$

$$\boxed{A = -16\,x + 4}$$

$B = 9\,x - (-8\,x + 5) - 9$
$B = 9\,x + 8\,x - 5 - 9$
$B = (9 + 8)\,x - 14$

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

$C = 2\,x - (5\,x - 6) - 4$
$C = 2\,x - 5\,x + 6 - 4$
$C = (2 - 5)\,x + 2$

$$\boxed{C = -3\,x + 2}$$

$D = -3\,x - 10 + (-x + 5)$

$D = -3\,x - 10 - x + 5$
$D = -3\,x - x - 10 + 5$
$D = (-3 - 1)\,x - 5$

$$\boxed{D = -4\,x - 5}$$

$E = -2 - 5\,x + (-3\,x + 10)$
$E = -5\,x - 2 - 3\,x + 10$
$E = -5\,x - 3\,x - 2 + 10$
$E = (-5 - 3)\,x + 8$

$$\boxed{E = -8\,x + 8}$$

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

$$\boxed{F = -5\,x + 9}$$