Corrigé de l'exercice 1

Développer et réduire chacune des expressions littérales suivantes :

$A = 8 \times 2\,x$
$A = 8 \times 2 \times x$
$\boxed{A = 16\,x}$

$B = 7\,x \times 4$
$B = 7 \times x \times 4$
$B = 7 \times 4 \times x$
$\boxed{B = 28\,x}$

$C = 5 + 10 \times (4\,x + 2)$
$C = 5 + 10 \times 4\,x + 10 \times 2$
$C = 5 + 10 \times 4 \times x + 20$
$C = 5 + 40\,x + 20$
$C = 40\,x + 5 + 20$
$\boxed{C = 40\,x + 25}$

$D = 3 \times (-2\,x + 7) - 6\,x$
$D = 3 \times (-2\,x) + 3 \times 7 - 6\,x$
$D = 3 \times (-2) \times x + 21 - 6\,x$
$D = -6\,x - 6\,x + 21$
$D = (-6 - 6)\,x + 21$
$\boxed{D = -12\,x + 21}$

$E = -5\,x + 5 + (-7\,x + 1) \times 5$
$E = -5\,x + 5 - 7\,x \times 5 + 1 \times 5$
$E = -5\,x + 5 - 7 \times x \times 5 + 5$
$E = -5\,x + 5 - 7 \times 5 \times x + 5$
$E = -5\,x + 5 - 35\,x + 5$
$E = -5\,x - 35\,x + 5 + 5$
$E = (-5 - 35)\,x + 10$
$\boxed{E = -40\,x + 10}$

Corrigé de l'exercice 2

Développer et réduire chacune des expressions littérales suivantes :

$A = 6\,x \times 2$
$A = 6 \times x \times 2$
$A = 6 \times 2 \times x$
$\boxed{A = 12\,x}$

$B = 3 \times 7\,x$
$B = 3 \times 7 \times x$
$\boxed{B = 21\,x}$

$C = 9\,x + (5\,x + 6) \times 6$
$C = 9\,x + 5\,x \times 6 + 6 \times 6$
$C = 9\,x + 5 \times x \times 6 + 36$
$C = 9\,x + 5 \times 6 \times x + 36$
$C = 9\,x + 30\,x + 36$
$C = (9 + 30)\,x + 36$
$\boxed{C = 39\,x + 36}$

$D = 8 + (-8\,x - 7) \times 5$
$D = 8 - 8\,x \times 5 - 7 \times 5$
$D = 8 - 8 \times x \times 5 - 35$
$D = 8 - 8 \times 5 \times x - 35$
$D = 8 - 40\,x - 35$
$D = -40\,x + 8 - 35$
$\boxed{D = -40\,x - 27}$

$E = 2\,x - 6 + (-6\,x + 4) \times 3$
$E = 2\,x - 6 - 6\,x \times 3 + 4 \times 3$
$E = 2\,x - 6 - 6 \times x \times 3 + 12$
$E = 2\,x - 6 - 6 \times 3 \times x + 12$
$E = 2\,x - 6 - 18\,x + 12$
$E = 2\,x - 18\,x - 6 + 12$
$E = (2 - 18)\,x + 6$
$\boxed{E = -16\,x + 6}$

Corrigé de l'exercice 3

Développer et réduire chacune des expressions littérales suivantes :

$A = 9\,x \times 7$
$A = 9 \times x \times 7$
$A = 9 \times 7 \times x$
$\boxed{A = 63\,x}$

$B = 6\,x \times 5$
$B = 6 \times x \times 5$
$B = 6 \times 5 \times x$
$\boxed{B = 30\,x}$

$C = 8 \times (-9\,x - 10) - 10\,x$
$C = 8 \times (-9\,x) + 8 \times (-10) - 10\,x$

$C = 8 \times (-9) \times x - 80 - 10\,x$
$C = -72\,x - 10\,x - 80$
$C = (-72 - 10)\ x - 80$
$\boxed{C = -82\,x - 80}$

$D = 10 \times (-4\,x + 6) - x - 5$
$D = 10 \times (-4\,x) + 10 \times 6 - x - 5$
$D = 10 \times (-4) \times x + 60 - x - 5$
$D = -40\,x - x + 60 - 5$
$D = (-40 - 1)\ x + 55$
$\boxed{D = -41\,x + 55}$

$E = (7\,x + 9) \times 9 - 7$
$E = 7\,x \times 9 + 9 \times 9 - 7$
$E = 7 \times x \times 9 + 81 - 7$
$E = 7 \times 9 \times x + 74$
$\boxed{E = 63\,x + 74}$

Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$A = 3 \times 9\,x$
$A = 3 \times 9 \times x$
$\boxed{A = 27\,x}$

$B = 7\,x \times 8$
$B = 7 \times x \times 8$
$B = 7 \times 8 \times x$
$\boxed{B = 56\,x}$

$C = -x - 5 + (-2\,x - 3) \times 5$
$C = -x - 5 - 2\,x \times 5 - 3 \times 5$
$C = -x - 5 - 2 \times x \times 5 - 15$
$C = -x - 5 - 2 \times 5 \times x - 15$
$C = -x - 5 - 10\,x - 15$
$C = -x - 10\,x - 5 - 15$
$C = (-1 - 10)\ x - 20$
$\boxed{C = -11\,x - 20}$

$D = 3 \times (-9\,x - 2) - 4$
$D = 3 \times (-9\,x) + 3 \times (-2) - 4$
$D = 3 \times (-9) \times x - 6 - 4$
$\boxed{D = -27\,x - 10}$

$E = (-10\,x + 9) \times 9 + 4\,x$
$E = -10\,x \times 9 + 9 \times 9 + 4\,x$
$E = -10 \times x \times 9 + 81 + 4\,x$
$E = -10 \times 9 \times x + 4\,x + 81$
$E = -90\,x + 4\,x + 81$
$E = (-90 + 4)\ x + 81$
$\boxed{E = -86\,x + 81}$

Corrigé de l'exercice 5

Développer et réduire chacune des expressions littérales suivantes :

$A = 6\,x \times 4$
$A = 6 \times x \times 4$
$A = 6 \times 4 \times x$
$\boxed{A = 24\,x}$

$B = 2 \times 5\,x$
$B = 2 \times 5 \times x$
$\boxed{B = 10\,x}$

$C = 9 + (-6\,x - 2) \times 9$
$C = 9 - 6\,x \times 9 - 2 \times 9$
$C = 9 - 6 \times x \times 9 - 18$
$C = 9 - 6 \times 9 \times x - 18$
$C = 9 - 54\,x - 18$
$C = -54\,x + 9 - 18$
$\boxed{C = -54\,x - 9}$

$D = -8\,x + 5 + (-5\,x - 1) \times 3$
$D = -8\,x + 5 - 5\,x \times 3 - 1 \times 3$
$D = -8\,x + 5 - 5 \times x \times 3 - 3$
$D = -8\,x + 5 - 5 \times 3 \times x - 3$
$D = -8\,x + 5 - 15\,x - 3$
$D = -8\,x - 15\,x + 5 - 3$
$D = (-8 - 15)\ x + 2$
$\boxed{D = -23\,x + 2}$

$E = (-7\,x + 7) \times 3 + 9\,x$
$E = -7\,x \times 3 + 7 \times 3 + 9\,x$
$E = -7 \times x \times 3 + 21 + 9\,x$
$E = -7 \times 3 \times x + 9\,x + 21$
$E = -21\,x + 9\,x + 21$
$E = (-21 + 9)\ x + 21$
$\boxed{E = -12\,x + 21}$