Corrigé de l'exercice 1

Développer et réduire les expressions suivantes :

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

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

$\boxed{A = -18\,x^2 + 72\,x}$

$B = (-9\,x - 7) \times (-2\,x)$

$B = -2\,x \times (-9\,x) + (-2\,x) \times (-7)$

$\boxed{B = 18\,x^2 + 14\,x}$

$C = (-4\,x + 9) \times (-10)$

$C = -10 \times (-4\,x) + (-10) \times 9$

$\boxed{C = 40\,x - 90}$

$D = (-3\,x - 8) \times 5\,x$

$D = 5\,x \times (-3\,x) + 5\,x \times (-8)$

$\boxed{D = -15\,x^2 - 40\,x}$

$E = (-6\,x - 8) \times (-3)$

$E = -3 \times (-6\,x) + (-3) \times (-8)$

$\boxed{E = 18\,x + 24}$

$F = (-3\,x + 2) \times (-3\,x)$

$F = -3\,x \times (-3\,x) + (-3\,x) \times 2$

$\boxed{F = 9\,x^2 - 6\,x}$

$G = 7\,x\,(7\,x + 8)$

$G = 7\,x \times 7\,x + 7\,x \times 8$

$\boxed{G = 49\,x^2 + 56\,x}$

$H = (3\,x + 6) \times (-4\,x)$

$H = -4\,x \times 3\,x + (-4\,x) \times 6$

$\boxed{H = -12\,x^2 - 24\,x}$

Corrigé de l'exercice 2

Développer et réduire les expressions suivantes :

$A = (-4\,x - 6) \times (-6\,x)$

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

$\boxed{A = 24\,x^2 + 36\,x}$

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

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

$\boxed{B = 27\,x - 18}$

$C = (-8\,x + 6) \times (-3)$

$C = -3 \times (-8\,x) + (-3) \times 6$

$\boxed{C = 24\,x - 18}$

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

$D = 3\,x \times (-6\,x) + 3\,x \times 2$

$\boxed{D = -18\,x^2 + 6\,x}$

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

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

$\boxed{E = 18\,x - 20}$

$F = (9\,x + 6) \times 6$

$F = 6 \times 9\,x + 6 \times 6$

$\boxed{F = 54\,x + 36}$

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

$G = -10\,x \times x + (-10\,x) \times 5$

$\boxed{G = -10\,x^2 - 50\,x}$

$H = (6\,x + 5) \times 3\,x$

$H = 3\,x \times 6\,x + 3\,x \times 5$

$\boxed{H = 18\,x^2 + 15\,x}$

Corrigé de l'exercice 3

Développer et réduire les expressions suivantes :

$A = (2\,x - 6) \times 3\,x$

$A = 3\,x \times 2\,x + 3\,x \times (-6)$

$\boxed{A = 6\,x^2 - 18\,x}$

$B = 4\,x\,(-10\,x - 10)$

$B = 4\,x \times (-10\,x) + 4\,x \times (-10)$

$\boxed{B = -40\,x^2 - 40\,x}$

$C = 6\,(2\,x - 8)$

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

$\boxed{C = 12\,x - 48}$

$D = (-10\,x - 8) \times (-4)$

$D = -4 \times (-10\,x) + (-4) \times (-8)$

$\boxed{D = 40\,x + 32}$

$E = (4\,x - 9) \times (-4)$

$E = -4 \times 4\,x + (-4) \times (-9)$

$\boxed{E = -16\,x + 36}$

$F = (7\,x - 7) \times 2\,x$

$F = 2\,x \times 7\,x + 2\,x \times (-7)$

$\boxed{F = 14\,x^2 - 14\,x}$

$G = (5\,x + 7) \times 2\,x$

$G = 2\,x \times 5\,x + 2\,x \times 7$

$\boxed{G = 10\,x^2 + 14\,x}$

$H = 9\,(8\,x + 9)$

$H = 9 \times 8\,x + 9 \times 9$

$\boxed{H = 72\,x + 81}$

Corrigé de l'exercice 4

Développer et réduire les expressions suivantes :

$A = 7\,(8\,x + 9)$

$A = 7 \times 8\,x + 7 \times 9$

$\boxed{A = 56\,x + 63}$

$B = (9\,x - 4) \times 10$

$B = 10 \times 9\,x + 10 \times (-4)$

$\boxed{B = 90\,x - 40}$

$C = -10\,(3\,x + 9)$

$C = -10 \times 3\,x + (-10) \times 9$

$\boxed{C = -30\,x - 90}$

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

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

$\boxed{D = -45\,x^2 - 36\,x}$

$E = (-8\,x - 10) \times 2$

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

$\boxed{E = -16\,x - 20}$

$F = (3\,x + 5) \times 7\,x$

$F = 7\,x \times 3\,x + 7\,x \times 5$

$\boxed{F = 21\,x^2 + 35\,x}$

$G = (-9\,x - 9) \times (-9\,x)$

$G = -9\,x \times (-9\,x) + (-9\,x) \times (-9)$

$\boxed{G = 81\,x^2 + 81\,x}$

$H = -2\,(-2\,x + 6)$

$H = -2 \times (-2\,x) + (-2) \times 6$

$\boxed{H = 4\,x - 12}$