Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -5\,a - 2\,a$

$A = (-5 - 2)\,a$

$A = -7\,a$

▶**2.** $B = -3\,t^2 \times (-4)$

$B = -3 \times t^2 \times (-4)$

$B = -3 \times (-4) \times t^2$

$B = 12\,t^2$

▶**3.** $C = 8\,t^2 - 2\,t^2$

$C = (8 - 2)\,t^2$

$C = 6\,t^2$

▶**4.** $D = -1 \times (-10\,t^2)$

$D = -1 \times (-10) \times t^2$

$D = 10\,t^2$

▶**5.** $E = 3\,a^2 + 10\,a$

▶**6.** $F = -9\,y - 6\,y$

$F = (-9 - 6)\,y$

$F = -15\,y$

▶**7.** $G = -7\,x^2 - x^2$

$G = (-7 - 1)\,x^2$

$G = -8\,x^2$

▶**8.** $H = 3 \times 5\,x^2$

$H = 3 \times 5 \times x^2$

$H = 15\,x^2$

▶**9.** $I = -2\,x^2 \times 9$

$I = -2 \times x^2 \times 9$

$I = -2 \times 9 \times x^2$

$I = -18\,x^2$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶**1.** $A = 2\,t - 9\,t$

$A = (2 - 9)\,t$

$A = -7\,t$

▶**2.** $B = -6\,x^2 \times 2$

$B = -6 \times x^2 \times 2$

$B = -6 \times 2 \times x^2$

$B = -12\,x^2$

▶**3.** $C = 8\,a \times (-a)$

$C = 8 \times a \times (-1) \times a$

$C = 8 \times (-1) \times a \times a$

$C = -8\,a^2$

▶**4.** $D = -4\,y^2 + 9\,y^2$

$D = (-4 + 9)\,y^2$

$D = 5\,y^2$

▶**5.** $E = -9\,a^2 + 3\,a^2$

$E = (-9 + 3)\,a^2$

$E = -6\,a^2$

▶**6.** $F = -2\,t^2 - 4\,t^2$

$F = (-2 - 4)\,t^2$

$F = -6\,t^2$

▶**7.** $G = 7\,t^2 \times (-5)$

$G = 7 \times t^2 \times (-5)$

$G = 7 \times (-5) \times t^2$

$G = -35\,t^2$

▶**8.** $H = a^2 - 7\,a^2$

$H = (1 - 7)\,a^2$

$H = -6\,a^2$

▶**9.** $I = -3\,y + 3\,y$

$I = (-3 + 3)\,y$

$I = 0$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -8\,x^2 \times (-3)$

$A = -8 \times x^2 \times (-3)$

$A = -8 \times (-3) \times x^2$

$A = 24\,x^2$

▶**2.** $B = -y^2 - 6\,y^2$

$B = (-1 - 6)\,y^2$

$B = -7\,y^2$

▶**3.** $C = -6\,t^2 \times 2$

$C = -6 \times t^2 \times 2$

$C = -6 \times 2 \times t^2$

$C = -12\,t^2$

▶**4.** $D = 2\,t^2 - 8\,t^2$

$D = (2 - 8)\,t^2$

$D = -6\,t^2$

▶**5.** $E = -7\,y^2 \times 5$

$E = -7 \times y^2 \times 5$

$E = -7 \times 5 \times y^2$

$E = -35\,y^2$

▶**6.** $F = -2\,x \times (-10)$

$F = -2 \times x \times (-10)$

$F = -2 \times (-10) \times x$

$F = 20\,x$

▶**7.** $G = -10\,x - (-5)$

$G = -10\,x + 5$

▶**8.** $H = 5\,y^2 - 9\,y^2$

$H = (5 - 9)\,y^2$

$H = -4\,y^2$

▶**9.** $I = 5 \times 3\,t$

$I = 5 \times 3 \times t$

$I = 15\,t$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -3\,y \times (-2\,y)$

$A = -3 \times y \times (-2) \times y$

$A = -3 \times (-2) \times y \times y$

$A = 6\,y^2$

▶**2.** $B = 7\,y^2 \times 4$

$B = 7 \times y^2 \times 4$

$B = 7 \times 4 \times y^2$

$B = 28\,y^2$

▶**3.** $C = -7 \times 2\,y$

$C = -7 \times 2 \times y$

$C = -14\,y$

▶**4.** $D = -3\,a^2 - 10\,a^2$

$D = (-3 - 10)\,a^2$

$D = -13\,a^2$

▶**5.** $E = 7\,x + 7$

▶**6.** $F = 5\,x^2 \times 2$

$F = 5 \times x^2 \times 2$

$F = 5 \times 2 \times x^2$

$F = 10\,x^2$

▶**7.** $G = 4 \times 9\,a$

$G = 4 \times 9 \times a$

$G = 36\,a$

▶**8.** $H = 9\,y^2 - (-2)$

$H = 9\,y^2 + 2$

▶**9.** $I = -7\,x + 5\,x$

$I = (-7 + 5)\,x$

$I = -2\,x$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -4\,y - 1$

▶**2.** $B = 3\,a^2 \times (-3)$

$B = 3 \times a^2 \times (-3)$

$B = 3 \times (-3) \times a^2$

$B = -9\,a^2$

▶**3.** $C = -10\,x \times 9\,x$

$C = -10 \times x \times 9 \times x$

$C = -10 \times 9 \times x \times x$

$C = -90\,x^2$

▶**4.** $D = 3\,a \times (-1)$

$D = 3 \times a \times (-1)$

$D = 3 \times (-1) \times a$

$D = -3\,a$

▶**5.** $E = 4\,y - (-9\,y)$

$E = (4 + 9)\,y$

$E = 13\,y$

▶**6.** $F = -7\,t + t^2$

$F = t^2 - 7\,t$

▶**7.** $G = -9\,x - 7\,x$

$G = (-9 - 7)\,x$

$G = -16\,x$

▶**8.** $H = 6\,y^2 - 8\,y^2$

$H = (6 - 8)\,y^2$

$H = -2\,y^2$

▶**9.** $I = -2\,a^2 \times (-9)$

$I = -2 \times a^2 \times (-9)$

$I = -2 \times (-9) \times a^2$

$I = 18\,a^2$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

▶**1.** $A = x \times (-5\,x)$

$A = x \times (-5) \times x$

$A = -5 \times x \times x$

$A = -5\,x^2$

▶**2.** $B = -7\,y - 5\,y$

$B = (-7 - 5)\,y$

$B = -12\,y$

▶**3.** $C = 9\,x^2 \times (-9)$

$C = 9 \times x^2 \times (-9)$

$C = 9 \times (-9) \times x^2$

$C = -81\,x^2$

▶**4.** $D = -5\,a \times 10\,a$

$D = -5 \times a \times 10 \times a$

$D = -5 \times 10 \times a \times a$

$D = -50\,a^2$

▶**5.** $E = 3\,a \times (-7)$

$E = 3 \times a \times (-7)$

$E = 3 \times (-7) \times a$

$E = -21\,a$

▶**6.** $F = 8\,y^2 \times 7$

$F = 8 \times y^2 \times 7$

$F = 8 \times 7 \times y^2$

$F = 56\,y^2$

▶**7.** $G = -y^2 \times (-4)$

$G = -1 \times y^2 \times (-4)$

$G = -1 \times (-4) \times y^2$

$G = 4\,y^2$

▶**8.** $H = -5\,y^2 - (-10\,y)$

$H = -5\,y^2 + 10\,y$

▶**9.** $I = -3\,x^2 \times 7$

$I = -3 \times x^2 \times 7$

$I = -3 \times 7 \times x^2$

$I = -21\,x^2$