Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -1 \times (-5\,x)$

$A = -1 \times (-5) \times x$

$A = 5\,x$

▶**2.** $B = -8\,a - 10\,a$

$B = (-8 - 10)\,a$

$B = -18\,a$

▶**3.** $C = 5\,x^2 \times (-8)$

$C = 5 \times x^2 \times (-8)$

$C = 5 \times (-8) \times x^2$

$C = -40\,x^2$

▶**4.** $D = 3\,y^2 - 3$

▶**5.** $E = -10\,t^2 \times 7$

$E = -10 \times t^2 \times 7$

$E = -10 \times 7 \times t^2$

$E = -70\,t^2$

▶**6.** $F = -2\,x^2 - (-x^2)$

$F = (-2 + 1)\,x^2$

$F = -x^2$

▶**7.** $G = -4\,y \times (-9)$

$G = -4 \times y \times (-9)$

$G = -4 \times (-9) \times y$

$G = 36\,y$

▶**8.** $H = -3\,y^2 - 5\,y^2$

$H = (-3 - 5)\,y^2$

$H = -8\,y^2$

▶**9.** $I = 8\,a^2 - 2\,a^2$

$I = (8 - 2)\,a^2$

$I = 6\,a^2$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶**1.** $A = 7\,t - 3\,t^2$

$A = -3\,t^2 + 7\,t$

▶**2.** $B = -8\,a^2 \times 3$

$B = -8 \times a^2 \times 3$

$B = -8 \times 3 \times a^2$

$B = -24\,a^2$

▶**3.** $C = 5\,a \times 6$

$C = 5 \times a \times 6$

$C = 5 \times 6 \times a$

$C = 30\,a$

▶**4.** $D = -2\,y^2 - (-10\,y)$

$D = -2\,y^2 + 10\,y$

▶**5.** $E = x \times 7$

$E = 7 \times x$

$E = 7\,x$

▶**6.** $F = -5\,a^2 - (-7\,a^2)$

$F = (-5 + 7)\,a^2$

$F = 2\,a^2$

▶**7.** $G = 3\,t - (-6\,t)$

$G = (3 + 6)\,t$

$G = 9\,t$

▶**8.** $H = -8 \times 10\,x^2$

$H = -8 \times 10 \times x^2$

$H = -80\,x^2$

▶**9.** $I = 5\,t + 4\,t$

$I = (5 + 4)\,t$

$I = 9\,t$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶**1.** $A = 9\,y + 10\,y$

$A = (9 + 10)\,y$

$A = 19\,y$

▶**2.** $B = -6\,a^2 - 2\,a^2$

$B = (-6 - 2)\,a^2$

$B = -8\,a^2$

▶**3.** $C = -2\,t - (-9\,t^2)$

$C = 9\,t^2 - 2\,t$

▶**4.** $D = 3\,y^2 \times (-1)$

$D = 3 \times y^2 \times (-1)$

$D = 3 \times (-1) \times y^2$

$D = -3\,y^2$

▶**5.** $E = -9 \times 4\,x^2$

$E = -9 \times 4 \times x^2$

$E = -36\,x^2$

▶**6.** $F = -6\,x \times (-3\,x)$

$F = -6 \times x \times (-3) \times x$

$F = -6 \times (-3) \times x \times x$

$F = 18\,x^2$

►**7.** $G = -t^2 + 8\,t^2$

$G = (-1 + 8)\,t^2$

$G = 7\,t^2$

►**8.** $H = -4\,a^2 - 4\,a^2$

$H = (-4 - 4)\,a^2$

$H = -8\,a^2$

►**9.** $I = -5\,a - 9\,a$

$I = (-5 - 9)\,a$

$I = -14\,a$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

►**1.** $A = 4 \times (-10\,y^2)$

$A = 4 \times (-10) \times y^2$

$A = -40\,y^2$

►**2.** $B = 8\,t^2 - 7\,t^2$

$B = (8 - 7)\,t^2$

$B = t^2$

►**3.** $C = -10\,a - 6\,a$

$C = (-10 - 6)\,a$

$C = -16\,a$

►**4.** $D = -t \times 8$

$D = -1 \times t \times 8$

$D = -1 \times 8 \times t$

$D = -8\,t$

►**5.** $E = 7\,t \times 5$

$E = 7 \times t \times 5$

$E = 7 \times 5 \times t$

$E = 35\,t$

►**6.** $F = -8 \times 10\,a^2$

$F = -8 \times 10 \times a^2$

$F = -80\,a^2$

►**7.** $G = -x^2 - 3\,x^2$

$G = (-1 - 3)\,x^2$

$G = -4\,x^2$

►**8.** $H = 7\,y - 5\,y$

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

$H = 2\,y$

►**9.** $I = 8\,t^2 - (-8\,t^2)$

$I = (8 + 8)\,t^2$

$I = 16\,t^2$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

►**1.** $A = 9\,a \times (-10\,a)$

$A = 9 \times a \times (-10) \times a$

$A = 9 \times (-10) \times a \times a$

$A = -90\,a^2$

►**2.** $B = 7\,a - a$

$B = (7 - 1)\,a$

$B = 6\,a$

►**3.** $C = -2\,x^2 \times 9$

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

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

$C = -18\,x^2$

►**4.** $D = -t \times 3\,t$

$D = -1 \times t \times 3 \times t$

$D = -1 \times 3 \times t \times t$

$D = -3\,t^2$

►**5.** $E = 2\,y + 3\,y^2$

$E = 3\,y^2 + 2\,y$

►**6.** $F = -2\,a - (-3\,a)$

$F = (-2 + 3)\,a$

$F = a$

►**7.** $G = -8\,x^2 - 5\,x^2$

$G = (-8 - 5)\,x^2$

$G = -13\,x^2$

►**8.** $H = 9\,a^2 - a^2$

$H = (9 - 1)\,a^2$

$H = 8\,a^2$

►**9.** $I = 10\,x \times 6$

$I = 10 \times x \times 6$

$I = 10 \times 6 \times x$

$I = 60\,x$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►**1.** $A = -2\,x - 8\,x$

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

$A = -10\,x$

►**2.** $B = -8\,x + 10\,x$

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

$B = 2\,x$

►**3.** $C = 7 \times \left(-6\,x^2\right)$

$C = 7 \times (-6) \times x^2$

$C = -42\,x^2$

►**4.** $D = 7\,y - 1$

►**5.** $E = 4\,x + 10\,x$

$E = (4 + 10)\,x$

$E = 14\,x$

►**6.** $F = -8\,a - 8\,a$

$F = (-8 - 8)\,a$

$F = -16\,a$

►**7.** $G = 7\,x - 2\,x^2$

$G = -2\,x^2 + 7\,x$

►**8.** $H = 10\,x^2 - 3\,x$

►**9.** $I = 2\,y - 3\,y$

$I = (2 - 3)\,y$

$I = -y$