Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -10\,a - 5\,a$

$A = (-10 - 5)\,a$

$A = -15\,a$

▶**2.** $B = -7 \times 2\,t^2$

$B = -7 \times 2 \times t^2$

$B = -14\,t^2$

▶**3.** $C = 7 \times (-a^2)$

$C = 7 \times (-1) \times a^2$

$C = -7\,a^2$

▶**4.** $D = 7\,y^2 - y^2$

$D = (7 - 1)\,y^2$

$D = 6\,y^2$

▶**5.** $E = -9\,x \times 6\,x$

$E = -9 \times x \times 6 \times x$

$E = -9 \times 6 \times x \times x$

$E = -54\,x^2$

▶**6.** $F = 7 \times 3\,t^2$

$F = 7 \times 3 \times t^2$

$F = 21\,t^2$

▶**7.** $G = 3\,y^2 \times 4$

$G = 3 \times y^2 \times 4$

$G = 3 \times 4 \times y^2$

$G = 12\,y^2$

▶**8.** $H = -4\,y + y$

$H = (-4 + 1)\,y$

$H = -3\,y$

▶**9.** $I = 8\,t^2 + 6\,t^2$

$I = (8 + 6)\,t^2$

$I = 14\,t^2$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶**1.** $A = -x - (-3\,x)$

$A = (-1 + 3)\,x$

$A = 2\,x$

▶**2.** $B = 8\,x^2 \times (-3)$

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

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

$B = -24\,x^2$

▶**3.** $C = 10\,x^2 + 9\,x^2$

$C = (10 + 9)\,x^2$

$C = 19\,x^2$

▶**4.** $D = -10\,y \times 3$

$D = -10 \times y \times 3$

$D = -10 \times 3 \times y$

$D = -30\,y$

▶**5.** $E = -3\,y^2 \times 9$

$E = -3 \times y^2 \times 9$

$E = -3 \times 9 \times y^2$

$E = -27\,y^2$

▶**6.** $F = 2\,a \times (-a)$

$F = 2 \times a \times (-1) \times a$

$F = 2 \times (-1) \times a \times a$

$F = -2\,a^2$

▶**7.** $G = -2\,y - 8$

▶**8.** $H = -6\,t^2 - 4\,t^2$

$H = (-6 - 4)\,t^2$

$H = -10\,t^2$

▶**9.** $I = -8\,y^2 - 6$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶**1.** $A = 8\,x \times (-5)$

$A = 8 \times x \times (-5)$

$A = 8 \times (-5) \times x$

$A = -40\,x$

▶**2.** $B = 4\,x^2 \times (-5)$

$B = 4 \times x^2 \times (-5)$

$B = 4 \times (-5) \times x^2$

$B = -20\,x^2$

▶**3.** $C = -7\,x^2 + 1$

▶**4.** $D = 7\,a^2 - (-5\,a^2)$

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

$D = 12\,a^2$

▶**5.** $E = -8 \times 10\,x^2$

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

$E = -80\,x^2$

▶**6.** $F = y^2 \times (-2)$

$F = -2 \times y^2$

$F = -2\,y^2$

►**7.** $G = 4\,a \times (-6)$

$G = 4 \times a \times (-6)$

$G = 4 \times (-6) \times a$

$G = -24\,a$

►**8.** $H = -t^2 + 6\,t^2$

$H = (-1 + 6)\,t^2$

$H = 5\,t^2$

►**9.** $I = x^2 - (-1)$

$I = x^2 + 1$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

►**1.** $A = 6\,t \times 2$

$A = 6 \times t \times 2$

$A = 6 \times 2 \times t$

$A = 12\,t$

►**2.** $B = -4\,a^2 + 9\,a^2$

$B = (-4 + 9)\,a^2$

$B = 5\,a^2$

►**3.** $C = 5\,a^2 - (-6\,a^2)$

$C = (5 + 6)\,a^2$

$C = 11\,a^2$

►**4.** $D = 8\,y^2 - 8\,y^2$

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

$D = 0$

►**5.** $E = -3\,a^2 + 8\,a^2$

$E = (-3 + 8)\,a^2$

$E = 5\,a^2$

►**6.** $F = 9\,x^2 \times (-7)$

$F = 9 \times x^2 \times (-7)$

$F = 9 \times (-7) \times x^2$

$F = -63\,x^2$

►**7.** $G = 4\,a + a$

$G = (4 + 1)\,a$

$G = 5\,a$

►**8.** $H = 10\,a \times (-1)$

$H = 10 \times a \times (-1)$

$H = 10 \times (-1) \times a$

$H = -10\,a$

►**9.** $I = 3\,a - (-8\,a)$

$I = (3 + 8)\,a$

$I = 11\,a$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

►**1.** $A = -4\,a^2 - 3\,a^2$

$A = (-4 - 3)\,a^2$

$A = -7\,a^2$

►**2.** $B = 5 \times (-y^2)$

$B = 5 \times (-1) \times y^2$

$B = -5\,y^2$

►**3.** $C = -2 \times (-2\,y)$

$C = -2 \times (-2) \times y$

$C = 4\,y$

►**4.** $D = -9\,x^2 \times (-6)$

$D = -9 \times x^2 \times (-6)$

$D = -9 \times (-6) \times x^2$

$D = 54\,x^2$

►**5.** $E = -9\,x \times (-9\,x)$

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

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

$E = 81\,x^2$

►**6.** $F = 4 \times (-4\,a^2)$

$F = 4 \times (-4) \times a^2$

$F = -16\,a^2$

►**7.** $G = -5\,t^2 - 3\,t^2$

$G = (-5 - 3)\,t^2$

$G = -8\,t^2$

►**8.** $H = -10 \times (-9\,a)$

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

$H = 90\,a$

►**9.** $I = -10\,t^2 - 7\,t^2$

$I = (-10 - 7)\,t^2$

$I = -17\,t^2$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►**1.** $A = 6\,x \times 8\,x$

$A = 6 \times x \times 8 \times x$

$A = 6 \times 8 \times x \times x$

$A = 48\,x^2$

►**2.** $B = -9 \times 5\,x^2$

$B = -9 \times 5 \times x^2$

$B = -45\,x^2$

►**3.** $C = -10\,x - (-7\,x)$

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

$C = -3\,x$

►**4.** $D = 8\,x^2 \times 8$

$D = 8 \times x^2 \times 8$

$D = 8 \times 8 \times x^2$

$D = 64\,x^2$

►**5.** $E = -9\,x - 4\,x$

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

$E = -13\,x$

►**6.** $F = 10\,a^2 - 5\,a^2$

$F = (10 - 5)\,a^2$

$F = 5\,a^2$

►**7.** $G = -3\,a^2 \times (-5)$

$G = -3 \times a^2 \times (-5)$

$G = -3 \times (-5) \times a^2$

$G = 15\,a^2$

►**8.** $H = -3\,x \times 8$

$H = -3 \times x \times 8$

$H = -3 \times 8 \times x$

$H = -24\,x$

►**9.** $I = 8\,t^2 \times 10$

$I = 8 \times t^2 \times 10$

$I = 8 \times 10 \times t^2$

$I = 80\,t^2$