Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -8\,a \times (-10\,a)$

$A = -8 \times a \times (-10) \times a$

$A = -8 \times (-10) \times a \times a$

$A = 80\,a^2$

▶2. $B = -7\,y^2 - 10\,y^2$

$B = (-7 - 10)\ y^2$

$B = -17\,y^2$

▶3. $C = -6\,y - 5\,y$

$C = (-6 - 5)\ y$

$C = -11\,y$

▶4. $D = -3 \times (-7\,y)$

$D = -3 \times (-7) \times y$

$D = 21\,y$

▶5. $E = -10\,x \times 3\,x$

$E = -10 \times x \times 3 \times x$

$E = -10 \times 3 \times x \times x$

$E = -30\,x^2$

▶6. $F = -t^2 + 7\,t^2$

$F = (-1 + 7)\ t^2$

$F = 6\,t^2$

▶7. $G = 2\,a - 9\,a$

$G = (2 - 9)\ a$

$G = -7\,a$

▶8. $H = 7\,t^2 - (-5\,t^2)$

$H = (7 + 5)\ t^2$

$H = 12\,t^2$

▶9. $I = 7\,t - 10\,t$

$I = (7 - 10)\ t$

$I = -3\,t$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = -6\,x + 7\,x$

$A = (-6 + 7)\ x$

$A = x$

▶2. $B = -9 \times (-8\,t)$

$B = -9 \times (-8) \times t$

$B = 72\,t$

▶3. $C = 2\,a^2 \times (-8)$

$C = 2 \times a^2 \times (-8)$

$C = 2 \times (-8) \times a^2$

$C = -16\,a^2$

▶4. $D = a \times (-9)$

$D = -9 \times a$

$D = -9\,a$

▶5. $E = -t - (-5\,t^2)$

$E = 5\,t^2 - t$

▶6. $F = -2\,y - 3$

▶7. $G = -6\,t^2 \times (-7)$

$G = -6 \times t^2 \times (-7)$

$G = -6 \times (-7) \times t^2$

$G = 42\,t^2$

▶8. $H = -a^2 - 7\,a^2$

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

$H = -8\,a^2$

▶9. $I = -a^2 \times 5$

$I = -1 \times a^2 \times 5$

$I = -1 \times 5 \times a^2$

$I = -5\,a^2$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = -4\,t^2 \times 10$

$A = -4 \times t^2 \times 10$

$A = -4 \times 10 \times t^2$

$A = -40\,t^2$

▶2. $B = -8\,y^2 + 10\,y^2$

$B = (-8 + 10)\ y^2$

$B = 2\,y^2$

▶3. $C = 7\,a^2 \times 6$

$C = 7 \times a^2 \times 6$

$C = 7 \times 6 \times a^2$

$C = 42\,a^2$

▶4. $D = 6\,x^2 \times (-7)$

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

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

$D = -42\,x^2$

▶5. $E = -8\,x^2 \times (-9)$

$E = -8 \times x^2 \times (-9)$

$E = -8 \times (-9) \times x^2$

$E = 72\,x^2$

▶6. $F = -a \times 5\,a$

$F = -1 \times a \times 5 \times a$

$F = -1 \times 5 \times a \times a$

$F = -5\,a^2$

▶7. $G = y - y$

$G = (1 - 1)\ y$

$G = 0$

▶8. $H = -10\,x - (-4\,x^2)$

$H = 4\,x^2 - 10\,x$

▶9. $I = -6\,y^2 \times 3$

$I = -6 \times y^2 \times 3$

$I = -6 \times 3 \times y^2$

$I = -18\,y^2$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = -10\,y^2 \times 9$

$A = -10 \times y^2 \times 9$

$A = -10 \times 9 \times y^2$

$A = -90\,y^2$

▶2. $B = -10\,x^2 - (-4\,x^2)$

$B = (-10 + 4)\ x^2$

$B = -6\,x^2$

▶3. $C = -4\,a^2 \times (-4)$

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

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

$C = 16\,a^2$

▶4. $D = -5\,a^2 - 7$

▶5. $E = 3\,a \times (-8\,a)$

$E = 3 \times a \times (-8) \times a$

$E = 3 \times (-8) \times a \times a$

$E = -24\,a^2$

▶6. $F = -3\,a^2 - (-2\,a^2)$

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

$F = -a^2$

▶7. $G = 4\,x - 10$

▶8. $H = 4 \times (-4\,a)$

$H = 4 \times (-4) \times a$

$H = -16\,a$

▶9. $I = 9\,x^2 - (-9\,x^2)$

$I = (9 + 9)\ x^2$

$I = 18\,x^2$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = -y^2 \times 6$

$A = -1 \times y^2 \times 6$

$A = -1 \times 6 \times y^2$

$A = -6\,y^2$

▶2. $B = 10\,a^2 + 6\,a$

▶3. $C = 3\,a - 4$

▶4. $D = -4\,a \times 4\,a$

$D = -4 \times a \times 4 \times a$

$D = -4 \times 4 \times a \times a$

$D = -16\,a^2$

▶5. $E = t \times (-9\,t)$

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

$E = -9 \times t \times t$

$E = -9\,t^2$

▶6. $F = 10\,y - 7\,y$

$F = (10 - 7)\ y$

$F = 3\,y$

▶7. $G = 7\,t \times (-3)$

$G = 7 \times t \times (-3)$

$G = 7 \times (-3) \times t$

$G = -21\,t$

▶8. $H = 6\,y - 5\,y$

$H = (6 - 5)\ y$

$H = y$

▶9. $I = -8\,t^2 - (-3\,t^2)$

$I = (-8 + 3)\ t^2$

$I = -5\,t^2$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = -5\,a^2 \times (-4)$

$A = -5 \times a^2 \times (-4)$

$A = -5 \times (-4) \times a^2$

$A = 20\,a^2$

▶2. $B = y^2 \times (-2)$

$B = -2 \times y^2$

$B = -2\,y^2$

▶3. $C = -3\,x - (-6\,x)$

$C = (-3 + 6)\ x$

$C = 3\,x$

▶4. $D = 6\,y + 7\,y$

$D = (6 + 7)\ y$

$D = 13\,y$

▶5. $E = 3\,t - 10\,t^2$

$E = -10\,t^2 + 3\,t$

▶6. $F = 4\,a^2 - (-2\,a^2)$

$F = (4 + 2)\ a^2$

$F = 6\,a^2$

▶7. $G = 8\,y \times 8$

$G = 8 \times y \times 8$

$G = 8 \times 8 \times y$

$G = 64\,y$

▶8. $H = -7\,a^2 + 9\,a^2$

$H = (-7 + 9)\ a^2$

$H = 2\,a^2$

▶9. $I = -10\,t^2 \times (-6)$

$I = -10 \times t^2 \times (-6)$

$I = -10 \times (-6) \times t^2$

$I = 60\,t^2$