Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -10\,t^2 - 7\,t^2$

$A = (-10 - 7)\ t^2$

$A = -17\,t^2$

▶2. $B = 3\,y^2 + 4\,y^2$

$B = (3 + 4)\ y^2$

$B = 7\,y^2$

▶3. $C = 7\,a^2 - 7\,a^2$

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

$C = 0$

▶4. $D = -3\,y^2 \times (-7)$

$D = -3 \times y^2 \times (-7)$

$D = -3 \times (-7) \times y^2$

$D = 21\,y^2$

▶5. $E = -5\,a^2 + 5\,a^2$

$E = (-5 + 5)\ a^2$

$E = 0$

▶6. $F = -7\,a - 2\,a$

$F = (-7 - 2)\ a$

$F = -9\,a$

▶7. $G = 4\,a + 10\,a$

$G = (4 + 10)\ a$

$G = 14\,a$

▶8. $H = -4\,y - (-5\,y^2)$

$H = 5\,y^2 - 4\,y$

▶9. $I = 2\,x \times (-10)$

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

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

$I = -20\,x$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = 5\,t \times (-8)$

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

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

$A = -40\,t$

▶2. $B = -4\,x^2 - (-5\,x^2)$

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

$B = x^2$

▶3. $C = 3\,y^2 \times 8$

$C = 3 \times y^2 \times 8$

$C = 3 \times 8 \times y^2$

$C = 24\,y^2$

▶4. $D = -7 \times (-10\,x)$

$D = -7 \times (-10) \times x$

$D = 70\,x$

▶5. $E = 10 \times 8\,a$

$E = 10 \times 8 \times a$

$E = 80\,a$

▶6. $F = 5\,a^2 \times (-9)$

$F = 5 \times a^2 \times (-9)$

$F = 5 \times (-9) \times a^2$

$F = -45\,a^2$

▶7. $G = -8 \times 3\,t^2$

$G = -8 \times 3 \times t^2$

$G = -24\,t^2$

▶8. $H = -4\,a^2 - 8\,a^2$

$H = (-4 - 8)\ a^2$

$H = -12\,a^2$

▶9. $I = 4\,a^2 - (-8\,a^2)$

$I = (4 + 8)\ a^2$

$I = 12\,a^2$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 6\,a^2 - (-3\,a^2)$

$A = (6 + 3)\ a^2$

$A = 9\,a^2$

▶2. $B = 9\,y - y$

$B = (9 - 1)\ y$

$B = 8\,y$

▶3. $C = 10\,x^2 - x^2$

$C = (10 - 1)\ x^2$

$C = 9\,x^2$

▶4. $D = 2\,a^2 \times 1$

$D = 2 \times a^2 \times 1$

$D = 2 \times a^2$

$D = 2\,a^2$

▶5. $E = -1 \times (-6\,a^2)$

$E = -1 \times (-6) \times a^2$

$E = 6\,a^2$

▶6. $F = 3 \times 8\,x^2$

$F = 3 \times 8 \times x^2$

$F = 24\,x^2$

▶7. $G = 10\,t^2 - (-1)$

$G = 10\,t^2 + 1$

▶8. $H = -7\,a \times (-9)$

$H = -7 \times a \times (-9)$

$H = -7 \times (-9) \times a$

$H = 63\,a$

▶9. $I = 9\,y - 4\,y$

$I = (9 - 4)\ y$

$I = 5\,y$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = -3\,t^2 - 5\,t^2$

$A = (-3 - 5)\ t^2$

$A = -8\,t^2$

▶2. $B = -4\,a^2 \times 1$

$B = -4 \times a^2 \times 1$

$B = -4 \times a^2$

$B = -4\,a^2$

▶3. $C = 7 \times (-9\,y)$

$C = 7 \times (-9) \times y$

$C = -63\,y$

▶4. $D = -5 \times 9\,x^2$

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

$D = -45\,x^2$

▶5. $E = 8\,x \times (-5)$

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

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

$E = -40\,x$

▶6. $F = -4\,t^2 \times (-5)$

$F = -4 \times t^2 \times (-5)$

$F = -4 \times (-5) \times t^2$

$F = 20\,t^2$

▶7. $G = -7\,a \times (-a)$

$G = -7 \times a \times (-1) \times a$

$G = -7 \times (-1) \times a \times a$

$G = 7\,a^2$

▶8. $H = -10\,y \times 2\,y$

$H = -10 \times y \times 2 \times y$

$H = -10 \times 2 \times y \times y$

$H = -20\,y^2$

▶9. $I = -4\,y^2 - 5\,y$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = -6\,y \times (-9)$

$A = -6 \times y \times (-9)$

$A = -6 \times (-9) \times y$

$A = 54\,y$

▶2. $B = -3\,x^2 - x$

▶3. $C = -7\,y \times (-y)$

$C = -7 \times y \times (-1) \times y$

$C = -7 \times (-1) \times y \times y$

$C = 7\,y^2$

▶4. $D = 6\,y^2 - 8\,y^2$

$D = (6 - 8)\ y^2$

$D = -2\,y^2$

▶5. $E = 3\,t^2 - 8\,t^2$

$E = (3 - 8)\ t^2$

$E = -5\,t^2$

▶6. $F = 4\,t^2 - 8\,t^2$

$F = (4 - 8)\ t^2$

$F = -4\,t^2$

▶7. $G = 7\,t^2 + 5\,t^2$

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

$G = 12\,t^2$

▶8. $H = 2\,a - a$

$H = (2 - 1)\ a$

$H = a$

▶9. $I = 4\,t^2 + 7\,t^2$

$I = (4 + 7)\ t^2$

$I = 11\,t^2$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = -9\,y \times (-2\,y)$

$A = -9 \times y \times (-2) \times y$

$A = -9 \times (-2) \times y \times y$

$A = 18\,y^2$

▶2. $B = 6\,t^2 - 6\,t^2$

$B = (6-6)\ t^2$

$B = 0$

▶3. $C = -8\,t \times (-7\,t)$

$C = -8 \times t \times (-7) \times t$

$C = -8 \times (-7) \times t \times t$

$C = 56\,t^2$

▶4. $D = -2\,a^2 - (-8\,a)$

$D = -2\,a^2 + 8\,a$

▶5. $E = -6\,t - 6\,t$

$E = (-6-6)\ t$

$E = -12\,t$

▶6. $F = 3\,a \times (-3\,a)$

$F = 3 \times a \times (-3) \times a$

$F = 3 \times (-3) \times a \times a$

$F = -9\,a^2$

▶7. $G = 3\,y^2 - (-y^2)$

$G = (3+1)\ y^2$

$G = 4\,y^2$

▶8. $H = -9\,t + 7\,t$

$H = (-9+7)\ t$

$H = -2\,t$

▶9. $I = -y - (-y)$

$I = (-1+1)\ y$

$I = 0$