Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -9\,y^2 \times (-5)$

$A = -9 \times y^2 \times (-5)$

$A = -9 \times (-5) \times y^2$

$A = 45\,y^2$

▶2. $B = -8\,t \times 5$

$B = -8 \times t \times 5$

$B = -8 \times 5 \times t$

$B = -40\,t$

▶3. $C = -10\,y^2 \times (-9)$

$C = -10 \times y^2 \times (-9)$

$C = -10 \times (-9) \times y^2$

$C = 90\,y^2$

▶4. $D = 2\,y^2 \times 10$

$D = 2 \times y^2 \times 10$

$D = 2 \times 10 \times y^2$

$D = 20\,y^2$

▶5. $E = a^2 - (-4\,a^2)$

$E = (1 + 4)\ a^2$

$E = 5\,a^2$

▶6. $F = 5\,a^2 + 3\,a$

▶7. $G = -4\,y^2 - 2\,y^2$

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

$G = -6\,y^2$

▶8. $H = 9\,y^2 - 2\,y^2$

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

$H = 7\,y^2$

▶9. $I = 9\,x \times 3$

$I = 9 \times x \times 3$

$I = 9 \times 3 \times x$

$I = 27\,x$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = x^2 - 6\,x^2$

$A = (1 - 6)\ x^2$

$A = -5\,x^2$

▶2. $B = 9 \times (-8\,y^2)$

$B = 9 \times (-8) \times y^2$

$B = -72\,y^2$

▶3. $C = -4\,y \times 9\,y$

$C = -4 \times y \times 9 \times y$

$C = -4 \times 9 \times y \times y$

$C = -36\,y^2$

▶4. $D = -8\,a \times 2$

$D = -8 \times a \times 2$

$D = -8 \times 2 \times a$

$D = -16\,a$

▶5. $E = 4\,y - 2\,y$

$E = (4 - 2)\ y$

$E = 2\,y$

▶6. $F = 10\,x^2 + 6\,x$

▶7. $G = 2 \times (-5\,a^2)$

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

$G = -10\,a^2$

▶8. $H = 9\,t \times 10\,t$

$H = 9 \times t \times 10 \times t$

$H = 9 \times 10 \times t \times t$

$H = 90\,t^2$

▶9. $I = -8\,t - 10\,t^2$

$I = -10\,t^2 - 8\,t$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 2\,x^2 - (-7\,x^2)$

$A = (2 + 7)\ x^2$

$A = 9\,x^2$

▶2. $B = 3\,a \times 6\,a$

$B = 3 \times a \times 6 \times a$

$B = 3 \times 6 \times a \times a$

$B = 18\,a^2$

▶3. $C = y^2 + 7\,y^2$

$C = (1 + 7)\ y^2$

$C = 8\,y^2$

▶4. $D = -2 \times 4\,a$

$D = -2 \times 4 \times a$

$D = -8\,a$

▶5. $E = 5\,t^2 - t$

▶6. $F = 8\,y - (-2\,y)$

$F = (8 + 2)\ y$

$F = 10\,y$

▶7. $G = 5\,y - (-9\,y)$

$G = (5 + 9)\ y$

$G = 14\,y$

8. $H = 10 \times 2\,a$

$H = 10 \times 2 \times a$

$H = 20\,a$

9. $I = -3\,a^2 \times 2$

$I = -3 \times a^2 \times 2$

$I = -3 \times 2 \times a^2$

$I = -6\,a^2$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

1. $A = -5 \times (-6\,x^2)$

$A = -5 \times (-6) \times x^2$

$A = 30\,x^2$

2. $B = -8 \times 2\,a^2$

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

$B = -16\,a^2$

3. $C = -3\,t^2 - (-10\,t^2)$

$C = (-3 + 10)\ t^2$

$C = 7\,t^2$

4. $D = -7\,x^2 + 9\,x^2$

$D = (-7 + 9)\ x^2$

$D = 2\,x^2$

5. $E = 5\,t + 2\,t$

$E = (5 + 2)\ t$

$E = 7\,t$

6. $F = -7\,y^2 - 9\,y^2$

$F = (-7 - 9)\ y^2$

$F = -16\,y^2$

7. $G = -6\,x - (-10\,x)$

$G = (-6 + 10)\ x$

$G = 4\,x$

8. $H = 1 \times 7\,x^2$

$H = 1 \times 7 \times x^2$

$H = 7\,x^2$

9. $I = 5\,t - 8\,t$

$I = (5 - 8)\ t$

$I = -3\,t$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

1. $A = -1 \times 5\,x$

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

$A = -5\,x$

2. $B = 6\,y^2 - (-3\,y^2)$

$B = (6 + 3)\ y^2$

$B = 9\,y^2$

3. $C = -9\,x - 3\,x$

$C = (-9 - 3)\ x$

$C = -12\,x$

4. $D = -9\,a \times 5$

$D = -9 \times a \times 5$

$D = -9 \times 5 \times a$

$D = -45\,a$

5. $E = 6\,x^2 + x$

6. $F = -2\,a^2 + 8\,a^2$

$F = (-2 + 8)\ a^2$

$F = 6\,a^2$

7. $G = -7\,t^2 - 9\,t^2$

$G = (-7 - 9)\ t^2$

$G = -16\,t^2$

8. $H = 8\,t^2 + 2\,t^2$

$H = (8 + 2)\ t^2$

$H = 10\,t^2$

9. $I = -5\,t \times 4\,t$

$I = -5 \times t \times 4 \times t$

$I = -5 \times 4 \times t \times t$

$I = -20\,t^2$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

1. $A = -5\,a \times a$

$A = -5 \times a \times a$

$A = -5\,a^2$

2. $B = 5\,a - 9\,a$

$B = (5 - 9)\ a$

$B = -4\,a$

3. $C = -2\,x - (-8)$

$C = -2\,x + 8$

4. $D = -9\,t \times (-9)$

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

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

$D = 81\,t$

▶5. $E = 3\,y - 6\,y$

$E = (3 - 6)\ y$

$E = -3\,y$

▶6. $F = -4\,x \times (-10\,x)$

$F = -4 \times x \times (-10) \times x$

$F = -4 \times (-10) \times x \times x$

$F = 40\,x^2$

▶7. $G = -9\,t^2 + 6\,t^2$

$G = (-9 + 6)\ t^2$

$G = -3\,t^2$

▶8. $H = -t \times 8$

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

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

$H = -8\,t$

▶9. $I = -x^2 \times 5$

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

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

$I = -5\,x^2$