

**Corrigé de l'exercice 1**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 10a \times 2a$

$$A = 10 \times a \times 2 \times a$$

$$A = 10 \times 2 \times a \times a$$

$$A = 20a^2$$

▶2.  $B = 7t^2 - 1$

▶3.  $C = -3t - (-9t)$

$$C = (-3 + 9)t$$

$$C = 6t$$

▶4.  $D = -y^2 - 3y$

▶5.  $E = -8x^2 - 4x^2$

$$E = (-8 - 4)x^2$$

$$E = -12x^2$$

▶6.  $F = -9a^2 \times 8$

$$F = -9 \times a^2 \times 8$$

$$F = -9 \times 8 \times a^2$$

$$F = -72a^2$$

▶7.  $G = 6a - a$

$$G = (6 - 1)a$$

$$G = 5a$$

▶8.  $H = -9y^2 \times 2$

$$H = -9 \times y^2 \times 2$$

$$H = -9 \times 2 \times y^2$$

$$H = -18y^2$$

▶9.  $I = 10 \times (-2x^2)$

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

$$I = -20x^2$$

**Corrigé de l'exercice 2**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -5x^2 \times 9$

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

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

$$A = -45x^2$$

▶2.  $B = 3 \times (-t)$

$$B = 3 \times (-1) \times t$$

$$B = -3t$$

▶3.  $C = 8 \times (-4t^2)$

$$C = 8 \times (-4) \times t^2$$

$$C = -32t^2$$

▶4.  $D = -3t - 4$

▶5.  $E = 4y^2 - 9y^2$

$$E = (4 - 9)y^2$$

$$E = -5y^2$$

▶6.  $F = -1 \times (-3t^2)$

$$F = -1 \times (-3) \times t^2$$

$$F = 3t^2$$

▶7.  $G = 3y + 2y$

$$G = (3 + 2)y$$

$$G = 5y$$

▶8.  $H = 9y^2 + 9y^2$

$$H = (9 + 9)y^2$$

$$H = 18y^2$$

▶9.  $I = -x^2 - (-x^2)$

$$I = (-1 + 1)x^2$$

$$I = 0$$

**Corrigé de l'exercice 3**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 5y^2 + 9y^2$

$$A = (5 + 9)y^2$$

$$A = 14y^2$$

▶2.  $B = 3y^2 \times (-4)$

$$B = 3 \times y^2 \times (-4)$$

$$B = 3 \times (-4) \times y^2$$

$$B = -12y^2$$

▶3.  $C = 5a^2 - 6a$

▶4.  $D = 10t^2 - 6t$

▶5.  $E = 7x^2 \times 8$

$$E = 7 \times x^2 \times 8$$

$$E = 7 \times 8 \times x^2$$

$$E = 56x^2$$

▶6.  $F = -3 \times 4x$

$$F = -3 \times 4 \times x$$

$$F = -12x$$

▶7.  $G = 8y^2 - (-9y^2)$

$$G = (8 + 9)y^2$$

$$G = 17y^2$$

▶8.  $H = -8y^2 \times (-4)$

$$H = -8 \times y^2 \times (-4)$$

$$H = -8 \times (-4) \times y^2$$

$$H = 32y^2$$

▶9.  $I = -9x - 2x$

$$I = (-9 - 2)x$$

$$I = -11x$$

**Corrigé de l'exercice 4**

Réduire, si possible, les expressions suivantes :

▶1.  $A = t^2 \times 9$

$A = 9 \times t^2$

$A = 9t^2$

▶2.  $B = 4x^2 \times (-1)$

$B = 4 \times x^2 \times (-1)$

$B = 4 \times (-1) \times x^2$

$B = -4x^2$

▶3.  $C = -8y \times 5y$

$C = -8 \times y \times 5 \times y$

$C = -8 \times 5 \times y \times y$

$C = -40y^2$

▶4.  $D = -7x + 4$

▶5.  $E = -8 \times (-10x^2)$

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

$E = 80x^2$

▶6.  $F = t \times (-4t)$

$F = t \times (-4) \times t$

$F = -4 \times t \times t$

$F = -4t^2$

▶7.  $G = -8a \times 3$

$G = -8 \times a \times 3$

$G = -8 \times 3 \times a$

$G = -24a$

▶8.  $H = -7y^2 \times (-6)$

$H = -7 \times y^2 \times (-6)$

$H = -7 \times (-6) \times y^2$

$H = 42y^2$

▶9.  $I = 7x \times (-1)$

$I = 7 \times x \times (-1)$

$I = 7 \times (-1) \times x$

$I = -7x$

**Corrigé de l'exercice 5**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 8x^2 - x^2$

$A = (8 - 1) x^2$

$A = 7x^2$

▶2.  $B = 3t \times (-5)$

$B = 3 \times t \times (-5)$

$B = 3 \times (-5) \times t$

$B = -15t$

▶3.  $C = 10t - 5t$

$C = (10 - 5) t$

$C = 5t$

▶4.  $D = 2t - 9t$

$D = (2 - 9) t$

$D = -7t$

▶5.  $E = -9t^2 - 9t^2$

$E = (-9 - 9) t^2$

$E = -18t^2$

▶6.  $F = 2a - 2a$

$F = (2 - 2) a$

$F = 0$

▶7.  $G = -10a^2 - 5a$

▶8.  $H = -9x^2 - 9x^2$

$H = (-9 - 9) x^2$

$H = -18x^2$

▶9.  $I = -10y \times (-2y)$

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

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

$I = 20y^2$

**Corrigé de l'exercice 6**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -3y - 4y$

$A = (-3 - 4) y$

$A = -7y$

▶2.  $B = -7y + 10y^2$

$B = 10y^2 - 7y$

▶3.  $C = -6x \times (-2)$

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

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

$C = 12x$

▶4.  $D = 6y \times 6$

$D = 6 \times y \times 6$

$D = 6 \times 6 \times y$

$D = 36y$

▶5.  $E = -8x^2 - 10x^2$

$E = (-8 - 10) x^2$

$E = -18x^2$

$$\blacktriangleright 6. F = -10x^2 \times (-4)$$

$$F = -10 \times x^2 \times (-4)$$

$$F = -10 \times (-4) \times x^2$$

$$F = 40x^2$$

$$\blacktriangleright 7. G = -2 \times (-8y^2)$$

$$G = -2 \times (-8) \times y^2$$

$$G = 16y^2$$

$$\blacktriangleright 8. H = t^2 \times (-9)$$

$$H = -9 \times t^2$$

$$H = -9t^2$$

$$\blacktriangleright 9. I = -8t + 2t$$

$$I = (-8 + 2)t$$

$$I = -6t$$