

**Exercice 1**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 4t^2 \times 4$

▶2.  $B = 3x^2 - 8x^2$

▶3.  $C = 2t - 2t$

▶4.  $D = -2x + x$

▶5.  $E = -7x + x$

▶6.  $F = 5t^2 - (-4)$

▶7.  $G = -1 \times 4a^2$

▶8.  $H = -10t^2 + 10t^2$

▶9.  $I = 10t^2 - (-6t^2)$

**Exercice 2**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -5y^2 - (-9y^2)$

▶2.  $B = -7t \times (-6)$

▶3.  $C = 6t^2 - 5t^2$

▶4.  $D = 10t^2 - (-8t^2)$

▶5.  $E = -x^2 \times 2$

▶6.  $F = 8a - 10a$

▶7.  $G = 8y \times 6$

▶8.  $H = -2a^2 - 3a^2$

▶9.  $I = 7 \times (-4x^2)$

**Exercice 3**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 10y \times 2$

▶2.  $B = 7 \times (-2t)$

▶3.  $C = -4t - 8t$

▶4.  $D = -10y - 2y$

▶5.  $E = 3t^2 - 7t^2$

▶6.  $F = 6t - (-9)$

▶7.  $G = -10y - 6y^2$

▶8.  $H = 8a^2 \times 7$

▶9.  $I = 6t \times 7$

**Exercice 4**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 4y^2 - 3y^2$

▶2.  $B = 2a \times 6a$

▶3.  $C = 4t \times (-2t)$

▶4.  $D = -10y - (-7y)$

▶5.  $E = -3t \times 6$

▶6.  $F = a \times (-10a)$

▶7.  $G = 4x - (-6x)$

▶8.  $H = 8x - 7$

▶9.  $I = 5t + t$

**Exercice 5**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -8y - y$

▶2.  $B = -10 \times (-7y)$

▶3.  $C = 5t \times (-5t)$

▶4.  $D = -4t^2 \times (-3)$

▶5.  $E = -5y^2 \times (-2)$

▶6.  $F = 5x - x$

▶7.  $G = -8a - 7a$

▶8.  $H = 8t^2 \times (-10)$

▶9.  $I = 3t \times (-8t)$

**Corrigé de l'exercice 1**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 4t^2 \times 4$

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

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

$A = 16t^2$

▶2.  $B = 3x^2 - 8x^2$

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

$B = -5x^2$

▶3.  $C = 2t - 2t$

$C = (2 - 2)t$

$C = 0$

▶4.  $D = -2x + x$

$D = (-2 + 1)x$

$D = -x$

▶5.  $E = -7x + x$

$E = (-7 + 1)x$

$E = -6x$

▶6.  $F = 5t^2 - (-4)$

$F = 5t^2 + 4$

▶7.  $G = -1 \times 4a^2$

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

$G = -4a^2$

▶8.  $H = -10t^2 + 10t^2$

$H = (-10 + 10)t^2$

$H = 0$

▶9.  $I = 10t^2 - (-6t^2)$

$I = (10 + 6)t^2$

$I = 16t^2$

**Corrigé de l'exercice 2**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -5y^2 - (-9y^2)$

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

$A = 4y^2$

▶2.  $B = -7t \times (-6)$

$B = -7 \times t \times (-6)$

$B = -7 \times (-6) \times t$

$B = 42t$

▶3.  $C = 6t^2 - 5t^2$

$C = (6 - 5)t^2$

$C = t^2$

▶4.  $D = 10t^2 - (-8t^2)$

$D = (10 + 8)t^2$

$D = 18t^2$

▶5.  $E = -x^2 \times 2$

$E = -1 \times x^2 \times 2$

$E = -1 \times 2 \times x^2$

$E = -2x^2$

▶6.  $F = 8a - 10a$

$F = (8 - 10)a$

$F = -2a$

▶7.  $G = 8y \times 6$

$G = 8 \times y \times 6$

$G = 8 \times 6 \times y$

$G = 48y$

▶8.  $H = -2a^2 - 3a^2$

$H = (-2 - 3)a^2$

$H = -5a^2$

▶9.  $I = 7 \times (-4x^2)$

$I = 7 \times (-4) \times x^2$

$I = -28x^2$

**Corrigé de l'exercice 3**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 10y \times 2$

$A = 10 \times y \times 2$

$A = 10 \times 2 \times y$

$A = 20y$

▶2.  $B = 7 \times (-2t)$

$B = 7 \times (-2) \times t$

$B = -14t$

▶3.  $C = -4t - 8t$

$C = (-4 - 8)t$

$C = -12t$

▶4.  $D = -10y - 2y$

$D = (-10 - 2)y$

$D = -12y$

▶5.  $E = 3t^2 - 7t^2$

$E = (3 - 7)t^2$

$E = -4t^2$

▶6.  $F = 6t - (-9)$

$F = 6t + 9$

$$\blacktriangleright 7. G = -10y - 6y^2$$

$$G = -6y^2 - 10y$$

$$\blacktriangleright 8. H = 8a^2 \times 7$$

$$H = 8 \times a^2 \times 7$$

$$H = 8 \times 7 \times a^2$$

$$H = 56a^2$$

$$\blacktriangleright 9. I = 6t \times 7$$

$$I = 6 \times t \times 7$$

$$I = 6 \times 7 \times t$$

$$I = 42t$$

### Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = 4y^2 - 3y^2$$

$$A = (4 - 3) y^2$$

$$A = y^2$$

$$\blacktriangleright 2. B = 2a \times 6a$$

$$B = 2 \times a \times 6 \times a$$

$$B = 2 \times 6 \times a \times a$$

$$B = 12a^2$$

$$\blacktriangleright 3. C = 4t \times (-2t)$$

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

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

$$C = -8t^2$$

$$\blacktriangleright 4. D = -10y - (-7y)$$

$$D = (-10 + 7) y$$

$$D = -3y$$

$$\blacktriangleright 5. E = -3t \times 6$$

$$E = -3 \times t \times 6$$

$$E = -3 \times 6 \times t$$

$$E = -18t$$

$$\blacktriangleright 6. F = a \times (-10a)$$

$$F = a \times (-10) \times a$$

$$F = -10 \times a \times a$$

$$F = -10a^2$$

$$\blacktriangleright 7. G = 4x - (-6x)$$

$$G = (4 + 6) x$$

$$G = 10x$$

$$\blacktriangleright 8. H = 8x - 7$$

$$\blacktriangleright 9. I = 5t + t$$

$$I = (5 + 1) t$$

$$I = 6t$$

### Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = -8y - y$$

$$A = (-8 - 1) y$$

$$A = -9y$$

$$\blacktriangleright 2. B = -10 \times (-7y)$$

$$B = -10 \times (-7) \times y$$

$$B = 70y$$

$$\blacktriangleright 3. C = 5t \times (-5t)$$

$$C = 5 \times t \times (-5) \times t$$

$$C = 5 \times (-5) \times t \times t$$

$$C = -25t^2$$

$$\blacktriangleright 4. D = -4t^2 \times (-3)$$

$$D = -4 \times t^2 \times (-3)$$

$$D = -4 \times (-3) \times t^2$$

$$D = 12t^2$$

$$\blacktriangleright 5. E = -5y^2 \times (-2)$$

$$E = -5 \times y^2 \times (-2)$$

$$E = -5 \times (-2) \times y^2$$

$$E = 10y^2$$

$$\blacktriangleright 6. F = 5x - x$$

$$F = (5 - 1) x$$

$$F = 4x$$

$$\blacktriangleright 7. G = -8a - 7a$$

$$G = (-8 - 7) a$$

$$G = -15a$$

$$\blacktriangleright 8. H = 8t^2 \times (-10)$$

$$H = 8 \times t^2 \times (-10)$$

$$H = 8 \times (-10) \times t^2$$

$$H = -80t^2$$

$$\blacktriangleright 9. I = 3t \times (-8t)$$

$$I = 3 \times t \times (-8) \times t$$

$$I = 3 \times (-8) \times t \times t$$

$$I = -24t^2$$