

**Corrigé de l'exercice 1**

Réduire, si possible, les expressions suivantes :

►1.  $A = 4 \times 3t^2$

$$A = 4 \times 3 \times t^2$$

$$A = 12t^2$$

►2.  $B = -10t - 8t$

$$B = (-10 - 8)t$$

$$B = -18t$$

►3.  $C = 5t - 7t$

$$C = (5 - 7)t$$

$$C = -2t$$

►4.  $D = 3x^2 \times (-9)$

$$D = 3 \times x^2 \times (-9)$$

$$D = 3 \times (-9) \times x^2$$

$$D = -27x^2$$

►5.  $E = -9y - 2y$

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

$$E = -11y$$

►6.  $F = a - 6a^2$

$$F = -6a^2 + a$$

►7.  $G = 8t \times (-5)$

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

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

$$G = -40t$$

►8.  $H = 2t^2 \times (-4)$

$$H = 2 \times t^2 \times (-4)$$

$$H = 2 \times (-4) \times t^2$$

$$H = -8t^2$$

►9.  $I = 7a^2 - 7a^2$

$$I = (7 - 7)a^2$$

$$I = 0$$

**Corrigé de l'exercice 2**

Réduire, si possible, les expressions suivantes :

►1.  $A = -7x \times 1$

$$A = -7 \times x \times 1$$

$$A = -7 \times x$$

$$A = -7x$$

►2.  $B = 10t - (-5t^2)$

$$B = 5t^2 + 10t$$

►3.  $C = -4t + t^2$

$$C = t^2 - 4t$$

►4.  $D = -4x^2 - (-4x)$

$$D = -4x^2 + 4x$$

►5.  $E = 9x^2 \times (-8)$

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

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

$$E = -72x^2$$

►6.  $F = -3a \times a$

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

$$F = -3a^2$$

►7.  $G = 6 \times (-t)$

$$G = 6 \times (-1) \times t$$

$$G = -6t$$

►8.  $H = 6y^2 - 6y^2$

$$H = (6 - 6)y^2$$

$$H = 0$$

►9.  $I = x \times (-5)$

$$I = -5 \times x$$

$$I = -5x$$

**Corrigé de l'exercice 3**

Réduire, si possible, les expressions suivantes :

►1.  $A = 2y \times 7$

$$A = 2 \times y \times 7$$

$$A = 2 \times 7 \times y$$

$$A = 14y$$

►2.  $B = 3x^2 \times (-6)$

$$B = 3 \times x^2 \times (-6)$$

$$B = 3 \times (-6) \times x^2$$

$$B = -18x^2$$

►3.  $C = -10y^2 - 3y^2$

$$C = (-10 - 3)y^2$$

$$C = -13y^2$$

►4.  $D = -3a \times 7$

$$D = -3 \times a \times 7$$

$$D = -3 \times 7 \times a$$

$$D = -21a$$

►5.  $E = -5t - 3t$

$$E = (-5 - 3)t$$

$$E = -8t$$

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

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

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

$$F = 100x^2$$

$$\blacktriangleright 7. G = 7a^2 - 10a^2$$

$$G = (7 - 10) a^2$$

$$G = -3a^2$$

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

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

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

$$H = 20t^2$$

$$\blacktriangleright 9. I = -6a - 9a$$

$$I = (-6 - 9) a$$

$$I = -15a$$

### Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = 4a - (-9)$$

$$A = 4a + 9$$

$$\blacktriangleright 2. B = 9a^2 - 6a^2$$

$$B = (9 - 6) a^2$$

$$B = 3a^2$$

$$\blacktriangleright 3. C = -4t^2 - 7t^2$$

$$C = (-4 - 7) t^2$$

$$C = -11t^2$$

$$\blacktriangleright 4. D = 10a \times (-1)$$

$$D = 10 \times a \times (-1)$$

$$D = 10 \times (-1) \times a$$

$$D = -10a$$

$$\blacktriangleright 5. E = 3a - 2a$$

$$E = (3 - 2) a$$

$$E = a$$

$$\blacktriangleright 6. F = 7t \times 4$$

$$F = 7 \times t \times 4$$

$$F = 7 \times 4 \times t$$

$$F = 28t$$

$$\blacktriangleright 7. G = 5t \times 7$$

$$G = 5 \times t \times 7$$

$$G = 5 \times 7 \times t$$

$$G = 35t$$

$$\blacktriangleright 8. H = 3 \times 4y$$

$$H = 3 \times 4 \times y$$

$$H = 12y$$

$$\blacktriangleright 9. I = -7t + 10$$

### Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = -7x \times (-9)$$

$$A = -7 \times x \times (-9)$$

$$A = -7 \times (-9) \times x$$

$$A = 63x$$

$$\blacktriangleright 2. B = -6y^2 \times (-8)$$

$$B = -6 \times y^2 \times (-8)$$

$$B = -6 \times (-8) \times y^2$$

$$B = 48y^2$$

$$\blacktriangleright 3. C = 10a^2 - 5a^2$$

$$C = (10 - 5) a^2$$

$$C = 5a^2$$

$$\blacktriangleright 4. D = -5t^2 \times 3$$

$$D = -5 \times t^2 \times 3$$

$$D = -5 \times 3 \times t^2$$

$$D = -15t^2$$

$$\blacktriangleright 5. E = 3y^2 + 5y^2$$

$$E = (3 + 5) y^2$$

$$E = 8y^2$$

$$\blacktriangleright 6. F = -9x^2 \times (-2)$$

$$F = -9 \times x^2 \times (-2)$$

$$F = -9 \times (-2) \times x^2$$

$$F = 18x^2$$

$$\blacktriangleright 7. G = 7y + y$$

$$G = (7 + 1) y$$

$$G = 8y$$

$$\blacktriangleright 8. H = -3 \times 3x$$

$$H = -3 \times 3 \times x$$

$$H = -9x$$

$$\blacktriangleright 9. I = 3x \times 6x$$

$$I = 3 \times x \times 6 \times x$$

$$I = 3 \times 6 \times x \times x$$

$$I = 18x^2$$

### Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►1.  $A = 6a^2 - a^2$

$$A = (6 - 1) a^2$$

$$A = 5a^2$$

►2.  $B = 5 \times (-9t^2)$

$$B = 5 \times (-9) \times t^2$$

$$B = -45t^2$$

►3.  $C = 7y^2 \times (-6)$

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

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

$$C = -42y^2$$

►4.  $D = -8x - 10x$

$$D = (-8 - 10) x$$

$$D = -18x$$

►5.  $E = 6t^2 - 3t^2$

$$E = (6 - 3) t^2$$

$$E = 3t^2$$

►6.  $F = 6y^2 - (-7y^2)$

$$F = (6 + 7) y^2$$

$$F = 13y^2$$

►7.  $G = 4x - (-5x)$

$$G = (4 + 5) x$$

$$G = 9x$$

►8.  $H = 6a^2 - 3a$

►9.  $I = -8t^2 - t$