

**Corrigé de l'exercice 1**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 5t^2 - 7t^2$

$$A = (5 - 7) t^2$$

$$A = -2t^2$$

▶2.  $B = -7x^2 \times (-2)$

$$B = -7 \times x^2 \times (-2)$$

$$B = -7 \times (-2) \times x^2$$

$$B = 14x^2$$

▶3.  $C = x - 10x$

$$C = (1 - 10) x$$

$$C = -9x$$

▶4.  $D = 10 \times 4y$

$$D = 10 \times 4 \times y$$

$$D = 40y$$

▶5.  $E = 9y^2 + 5y$

▶6.  $F = 9x^2 + 3x^2$

$$F = (9 + 3) x^2$$

$$F = 12x^2$$

▶7.  $G = -8t^2 - 3t^2$

$$G = (-8 - 3) t^2$$

$$G = -11t^2$$

▶8.  $H = -5a - 5a$

$$H = (-5 - 5) a$$

$$H = -10a$$

▶9.  $I = -6x \times 2x$

$$I = -6 \times x \times 2 \times x$$

$$I = -6 \times 2 \times x \times x$$

$$I = -12x^2$$

**Corrigé de l'exercice 2**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -7 \times 3x^2$

$$A = -7 \times 3 \times x^2$$

$$A = -21x^2$$

▶2.  $B = 3y^2 \times (-10)$

$$B = 3 \times y^2 \times (-10)$$

$$B = 3 \times (-10) \times y^2$$

$$B = -30y^2$$

▶3.  $C = 2y - (-y)$

$$C = (2 + 1) y$$

$$C = 3y$$

▶4.  $D = y^2 \times 4$

$$D = 4 \times y^2$$

$$D = 4y^2$$

▶5.  $E = 9y^2 + 6y$

▶6.  $F = -2y - (-7)$

$$F = -2y + 7$$

▶7.  $G = 9y^2 - 7y^2$

$$G = (9 - 7) y^2$$

$$G = 2y^2$$

▶8.  $H = -4y \times (-4)$

$$H = -4 \times y \times (-4)$$

$$H = -4 \times (-4) \times y$$

$$H = 16y$$

▶9.  $I = -2t - (-6t)$

$$I = (-2 + 6) t$$

$$I = 4t$$

**Corrigé de l'exercice 3**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -4t^2 - 9t^2$

$$A = (-4 - 9) t^2$$

$$A = -13t^2$$

▶2.  $B = 2t^2 - 8t^2$

$$B = (2 - 8) t^2$$

$$B = -6t^2$$

▶3.  $C = 3t^2 - 7t^2$

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

$$C = -4t^2$$

▶4.  $D = 9t^2 \times 7$

$$D = 9 \times t^2 \times 7$$

$$D = 9 \times 7 \times t^2$$

$$D = 63t^2$$

▶5.  $E = 6x - 9x$

$$E = (6 - 9) x$$

$$E = -3x$$

▶6.  $F = -10x - 7x$

$$F = (-10 - 7) x$$

$$F = -17x$$

▶7.  $G = -5a \times (-2a)$

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

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

$$G = 10a^2$$

$$\begin{aligned} \blacktriangleright 8. H &= -y^2 \times (-8) \\ H &= -1 \times y^2 \times (-8) \\ H &= -1 \times (-8) \times y^2 \end{aligned}$$

$$\begin{aligned} H &= 8y^2 \\ \blacktriangleright 9. I &= 6t^2 + t^2 \\ I &= (6 + 1)t^2 \end{aligned}$$

$$I = 7t^2$$

### Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\begin{aligned} \blacktriangleright 1. A &= 3x \times 5 \\ A &= 3 \times x \times 5 \\ A &= 3 \times 5 \times x \\ A &= 15x \end{aligned}$$

$$\begin{aligned} \blacktriangleright 2. B &= -3t - (-4) \\ B &= -3t + 4 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 3. C &= 10t - 10t^2 \\ C &= -10t^2 + 10t \end{aligned}$$

$$\begin{aligned} \blacktriangleright 4. D &= 5a \times (-1) \\ D &= 5 \times a \times (-1) \end{aligned}$$

$$\begin{aligned} D &= 5 \times (-1) \times a \\ D &= -5a \\ \blacktriangleright 5. E &= -6a \times (-2) \\ E &= -6 \times a \times (-2) \\ E &= -6 \times (-2) \times a \\ E &= 12a \end{aligned}$$

$$\begin{aligned} \blacktriangleright 6. F &= -t + 2t \\ F &= (-1 + 2)t \\ F &= t \end{aligned}$$

$$\begin{aligned} \blacktriangleright 7. G &= -7y \times (-y) \\ G &= -7 \times y \times (-1) \times y \\ G &= -7 \times (-1) \times y \times y \\ G &= 7y^2 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8. H &= 2x - 3x \\ H &= (2 - 3)x \\ H &= -x \end{aligned}$$

$$\begin{aligned} \blacktriangleright 9. I &= -2x + 10x^2 \\ I &= 10x^2 - 2x \end{aligned}$$

### Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

$$\begin{aligned} \blacktriangleright 1. A &= 6x^2 - 6x^2 \\ A &= (6 - 6)x^2 \\ A &= 0 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 2. B &= -6 \times (-2y^2) \\ B &= -6 \times (-2) \times y^2 \\ B &= 12y^2 \end{aligned}$$

$$\blacktriangleright 3. C = -4t - 10$$

$$\begin{aligned} \blacktriangleright 4. D &= 5 \times (-9t^2) \\ D &= 5 \times (-9) \times t^2 \\ D &= -45t^2 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 5. E &= -2a - (-6a) \\ E &= (-2 + 6)a \\ E &= 4a \end{aligned}$$

$$\begin{aligned} \blacktriangleright 6. F &= 8t \times 4t \\ F &= 8 \times t \times 4 \times t \\ F &= 8 \times 4 \times t \times t \\ F &= 32t^2 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 7. G &= -2y \times (-y) \\ G &= -2 \times y \times (-1) \times y \end{aligned}$$

$$\begin{aligned} G &= -2 \times (-1) \times y \times y \\ G &= 2y^2 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8. H &= a - (-2a) \\ H &= (1 + 2)a \\ H &= 3a \end{aligned}$$

$$\begin{aligned} \blacktriangleright 9. I &= 9y^2 \times (-6) \\ I &= 9 \times y^2 \times (-6) \\ I &= 9 \times (-6) \times y^2 \\ I &= -54y^2 \end{aligned}$$

### Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = -4x^2 + 8$$

$$\begin{aligned} \blacktriangleright 2. B &= 6a^2 \times 6 \\ B &= 6 \times a^2 \times 6 \end{aligned}$$

$$\begin{aligned} B &= 6 \times 6 \times a^2 \\ B &= 36a^2 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 3. C &= -6a^2 \times 1 \\ C &= -6 \times a^2 \times 1 \\ C &= -6 \times a^2 \end{aligned}$$

$$C = -6a^2$$

►4.  $D = -4a \times 1$

$$D = -4 \times a \times 1$$

$$D = -4 \times a$$

$$D = -4a$$

►5.  $E = -4x^2 + 8$

►6.  $F = -2x^2 - 3$

►7.  $G = -9y \times (-3y)$

$$G = -9 \times y \times (-3) \times y$$

$$G = -9 \times (-3) \times y \times y$$

$$G = 27y^2$$

►8.  $H = -x - (-4x)$

$$H = (-1 + 4) x$$

$$H = 3x$$

►9.  $I = 2t^2 - 4t^2$

$$I = (2 - 4) t^2$$

$$I = -2t^2$$