

**Exercice 1**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -5 \times (-8t^2)$

▶2.  $B = 9y - 2y$

▶3.  $C = 10a^2 \times (-2)$

▶4.  $D = 10a \times 10$

▶5.  $E = 3a \times (-4)$

▶6.  $F = -8x - 8x$

▶7.  $G = -5x - 3x$

▶8.  $H = 7t \times 5t$

▶9.  $I = -2a^2 - a^2$

**Exercice 2**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 2 \times 7x^2$

▶2.  $B = x^2 - (-9x^2)$

▶3.  $C = 10a^2 - (-8a^2)$

▶4.  $D = 9t^2 - 8t^2$

▶5.  $E = 3y^2 \times 4$

▶6.  $F = -t \times 2t$

▶7.  $G = -8y^2 + 4y^2$

▶8.  $H = 6a^2 \times 9$

▶9.  $I = -10a + a$

**Exercice 3**

Réduire, si possible, les expressions suivantes :

▶1.  $A = 8a^2 \times 9$

▶2.  $B = x - 9x$

▶3.  $C = -6a^2 + 9a^2$

▶4.  $D = -8 \times 3x^2$

▶5.  $E = -10x^2 \times (-5)$

▶6.  $F = -7x + 7x^2$

▶7.  $G = -6y^2 - 8y^2$

▶8.  $H = -9a - 8a$

▶9.  $I = 10 \times 9x$

**Exercice 4**

Réduire, si possible, les expressions suivantes :

▶1.  $A = -7x^2 + 2x^2$

▶2.  $B = 6 \times 6a^2$

▶3.  $C = 2t^2 + t^2$

▶4.  $D = -10a \times 6a$

▶5.  $E = 5a^2 \times (-1)$

▶6.  $F = t^2 + 3t^2$

▶7.  $G = 8x \times (-3)$

▶8.  $H = -4a^2 + 8a^2$

▶9.  $I = -6a^2 - (-8a^2)$

**Corrigé de l'exercice 1**

Réduire, si possible, les expressions suivantes :

►1.  $A = -5 \times (-8t^2)$

$$A = -5 \times (-8) \times t^2$$

$$A = 40t^2$$

►2.  $B = 9y - 2y$

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

$$B = 7y$$

►3.  $C = 10a^2 \times (-2)$

$$C = 10 \times a^2 \times (-2)$$

$$C = 10 \times (-2) \times a^2$$

$$C = -20a^2$$

►4.  $D = 10a \times 10$

$$D = 10 \times a \times 10$$

$$D = 10 \times 10 \times a$$

$$D = 100a$$

►5.  $E = 3a \times (-4)$

$$E = 3 \times a \times (-4)$$

$$E = 3 \times (-4) \times a$$

$$E = -12a$$

►6.  $F = -8x - 8x$

$$F = (-8 - 8)x$$

$$F = -16x$$

►7.  $G = -5x - 3x$

$$G = (-5 - 3)x$$

$$G = -8x$$

►8.  $H = 7t \times 5t$

$$H = 7 \times t \times 5 \times t$$

$$H = 7 \times 5 \times t \times t$$

$$H = 35t^2$$

►9.  $I = -2a^2 - a^2$

$$I = (-2 - 1)a^2$$

$$I = -3a^2$$

**Corrigé de l'exercice 2**

Réduire, si possible, les expressions suivantes :

►1.  $A = 2 \times 7x^2$

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

$$A = 14x^2$$

►2.  $B = x^2 - (-9x^2)$

$$B = (1 + 9)x^2$$

$$B = 10x^2$$

►3.  $C = 10a^2 - (-8a^2)$

$$C = (10 + 8)a^2$$

$$C = 18a^2$$

►4.  $D = 9t^2 - 8t^2$

$$D = (9 - 8)t^2$$

$$D = t^2$$

►5.  $E = 3y^2 \times 4$

$$E = 3 \times y^2 \times 4$$

$$E = 3 \times 4 \times y^2$$

$$E = 12y^2$$

►6.  $F = -t \times 2t$

$$F = -1 \times t \times 2 \times t$$

$$F = -1 \times 2 \times t \times t$$

$$F = -2t^2$$

►7.  $G = -8y^2 + 4y^2$

$$G = (-8 + 4)y^2$$

$$G = -4y^2$$

►8.  $H = 6a^2 \times 9$

$$H = 6 \times a^2 \times 9$$

$$H = 6 \times 9 \times a^2$$

$$H = 54a^2$$

►9.  $I = -10a + a$

$$I = (-10 + 1)a$$

$$I = -9a$$

**Corrigé de l'exercice 3**

Réduire, si possible, les expressions suivantes :

►1.  $A = 8a^2 \times 9$

$$A = 8 \times a^2 \times 9$$

$$A = 8 \times 9 \times a^2$$

$$A = 72a^2$$

►2.  $B = x - 9x$

$$B = (1 - 9)x$$

$$B = -8x$$

►3.  $C = -6a^2 + 9a^2$

$$C = (-6 + 9)a^2$$

$$C = 3a^2$$

►4.  $D = -8 \times 3x^2$

$$D = -8 \times 3 \times x^2$$

$$D = -24x^2$$

$$\blacktriangleright 5. E = -10x^2 \times (-5)$$

$$E = -10 \times x^2 \times (-5)$$

$$E = -10 \times (-5) \times x^2$$

$$E = 50x^2$$

$$\blacktriangleright 6. F = -7x + 7x^2$$

$$F = 7x^2 - 7x$$

$$\blacktriangleright 7. G = -6y^2 - 8y^2$$

$$G = (-6 - 8)y^2$$

$$G = -14y^2$$

$$\blacktriangleright 8. H = -9a - 8a$$

$$H = (-9 - 8)a$$

$$H = -17a$$

$$\blacktriangleright 9. I = 10 \times 9x$$

$$I = 10 \times 9 \times x$$

$$I = 90x$$

### Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = -7x^2 + 2x^2$$

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

$$A = -5x^2$$

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

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

$$B = 36a^2$$

$$\blacktriangleright 3. C = 2t^2 + t^2$$

$$C = (2 + 1)t^2$$

$$C = 3t^2$$

$$\blacktriangleright 4. D = -10a \times 6a$$

$$D = -10 \times a \times 6 \times a$$

$$D = -10 \times 6 \times a \times a$$

$$D = -60a^2$$

$$\blacktriangleright 5. E = 5a^2 \times (-1)$$

$$E = 5 \times a^2 \times (-1)$$

$$E = 5 \times (-1) \times a^2$$

$$E = -5a^2$$

$$\blacktriangleright 6. F = t^2 + 3t^2$$

$$F = (1 + 3)t^2$$

$$F = 4t^2$$

$$\blacktriangleright 7. G = 8x \times (-3)$$

$$G = 8 \times x \times (-3)$$

$$G = 8 \times (-3) \times x$$

$$G = -24x$$

$$\blacktriangleright 8. H = -4a^2 + 8a^2$$

$$H = (-4 + 8)a^2$$

$$H = 4a^2$$

$$\blacktriangleright 9. I = -6a^2 - (-8a^2)$$

$$I = (-6 + 8)a^2$$

$$I = 2a^2$$