

Exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = 2x^2 - (-2x^2)$

▶2. $B = 5t^2 \times (-4)$

▶3. $C = 4y - 9y$

▶4. $D = 7x^2 + 5x^2$

▶5. $E = -9x \times 8x$

▶6. $F = 3a \times (-1)$

▶7. $G = 5y - 3y$

▶8. $H = -10 \times 9a^2$

▶9. $I = 2y - (-9y)$

Exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = 5 \times 10x^2$

▶2. $B = 6a - 9a$

▶3. $C = -2a^2 \times (-7)$

▶4. $D = -10t - 10t$

▶5. $E = 6a - 2a$

▶6. $F = -6t + 8t$

▶7. $G = -4 \times 5y$

▶8. $H = 10x^2 \times (-6)$

▶9. $I = 5a \times (-5)$

Exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = -7y^2 - 4y^2$

▶2. $B = 6t^2 - 10t^2$

▶3. $C = x \times (-3x)$

▶4. $D = 3x^2 \times 8$

▶5. $E = 3t^2 - 3t^2$

▶6. $F = 6 \times (-10t^2)$

▶7. $G = -8x - 4x$

▶8. $H = 5a^2 \times (-6)$

▶9. $I = 7a + 2a$

Exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = -8t^2 - 7t^2$

▶2. $B = 7x^2 \times (-5)$

▶3. $C = 2a + 7a$

▶4. $D = -10t^2 - 8t^2$

▶5. $E = -2a^2 + 3a^2$

▶6. $F = -2x \times (-5)$

▶7. $G = t^2 \times (-7)$

▶8. $H = -7x^2 - (-4x^2)$

▶9. $I = 5x^2 + 3x$

Exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = 3t - (-9t)$

▶2. $B = -4y^2 \times 5$

▶3. $C = -7y - 10y$

▶4. $D = -2a^2 \times 7$

▶5. $E = -10y \times 6y$

▶6. $F = 6a \times (-10a)$

▶7. $G = 10a + 6a$

▶8. $H = -5t - (-6t)$

▶9. $I = -2 \times 10y^2$

Exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = -7 \times 4x^2$

▶2. $B = 8x^2 + 6x^2$

▶3. $C = 9a - (-5a)$

▶4. $D = 9t \times 10t$

▶5. $E = 10x \times (-7)$

▶6. $F = -4a^2 - 6$

▶7. $G = -x - 8x^2$

▶8. $H = 10 \times (-2y^2)$

▶9. $I = 10 \times 10t^2$

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

►1. $A = 2x^2 - (-2x^2)$

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

$$A = 4x^2$$

►2. $B = 5t^2 \times (-4)$

$$B = 5 \times t^2 \times (-4)$$

$$B = 5 \times (-4) \times t^2$$

$$B = -20t^2$$

►3. $C = 4y - 9y$

$$C = (4 - 9) y$$

$$C = -5y$$

►4. $D = 7x^2 + 5x^2$

$$D = (7 + 5) x^2$$

$$D = 12x^2$$

►5. $E = -9x \times 8x$

$$E = -9 \times x \times 8 \times x$$

$$E = -9 \times 8 \times x \times x$$

$$E = -72x^2$$

►6. $F = 3a \times (-1)$

$$F = 3 \times a \times (-1)$$

$$F = 3 \times (-1) \times a$$

$$F = -3a$$

►7. $G = 5y - 3y$

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

$$G = 2y$$

►8. $H = -10 \times 9a^2$

$$H = -10 \times 9 \times a^2$$

$$H = -90a^2$$

►9. $I = 2y - (-9y)$

$$I = (2 + 9) y$$

$$I = 11y$$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

►1. $A = 5 \times 10x^2$

$$A = 5 \times 10 \times x^2$$

$$A = 50x^2$$

►2. $B = 6a - 9a$

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

$$B = -3a$$

►3. $C = -2a^2 \times (-7)$

$$C = -2 \times a^2 \times (-7)$$

$$C = -2 \times (-7) \times a^2$$

$$C = 14a^2$$

►4. $D = -10t - 10t$

$$D = (-10 - 10) t$$

$$D = -20t$$

►5. $E = 6a - 2a$

$$E = (6 - 2) a$$

$$E = 4a$$

►6. $F = -6t + 8t$

$$F = (-6 + 8) t$$

$$F = 2t$$

►7. $G = -4 \times 5y$

$$G = -4 \times 5 \times y$$

$$G = -20y$$

►8. $H = 10x^2 \times (-6)$

$$H = 10 \times x^2 \times (-6)$$

$$H = 10 \times (-6) \times x^2$$

$$H = -60x^2$$

►9. $I = 5a \times (-5)$

$$I = 5 \times a \times (-5)$$

$$I = 5 \times (-5) \times a$$

$$I = -25a$$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

►1. $A = -7y^2 - 4y^2$

$$A = (-7 - 4) y^2$$

$$A = -11y^2$$

►2. $B = 6t^2 - 10t^2$

$$B = (6 - 10) t^2$$

$$B = -4t^2$$

►3. $C = x \times (-3x)$

$$C = x \times (-3) \times x$$

$$C = -3 \times x \times x$$

$$C = -3x^2$$

►4. $D = 3x^2 \times 8$

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

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

$$D = 24x^2$$

$$\blacktriangleright 5. E = 3t^2 - 3t^2$$

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

$$E = 0$$

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

$$F = 6 \times (-10) \times t^2$$

$$F = -60t^2$$

$$\blacktriangleright 7. G = -8x - 4x$$

$$G = (-8 - 4)x$$

$$G = -12x$$

$$\blacktriangleright 8. H = 5a^2 \times (-6)$$

$$H = 5 \times a^2 \times (-6)$$

$$H = 5 \times (-6) \times a^2$$

$$H = -30a^2$$

$$\blacktriangleright 9. I = 7a + 2a$$

$$I = (7 + 2)a$$

$$I = 9a$$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = -8t^2 - 7t^2$$

$$A = (-8 - 7)t^2$$

$$A = -15t^2$$

$$\blacktriangleright 2. B = 7x^2 \times (-5)$$

$$B = 7 \times x^2 \times (-5)$$

$$B = 7 \times (-5) \times x^2$$

$$B = -35x^2$$

$$\blacktriangleright 3. C = 2a + 7a$$

$$C = (2 + 7)a$$

$$C = 9a$$

$$\blacktriangleright 4. D = -10t^2 - 8t^2$$

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

$$D = -18t^2$$

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

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

$$E = a^2$$

$$\blacktriangleright 6. F = -2x \times (-5)$$

$$F = -2 \times x \times (-5)$$

$$F = -2 \times (-5) \times x$$

$$F = 10x$$

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

$$G = -7 \times t^2$$

$$G = -7t^2$$

$$\blacktriangleright 8. H = -7x^2 - (-4x^2)$$

$$H = (-7 + 4)x^2$$

$$H = -3x^2$$

$$\blacktriangleright 9. I = 5x^2 + 3x$$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = 3t - (-9t)$$

$$A = (3 + 9)t$$

$$A = 12t$$

$$\blacktriangleright 2. B = -4y^2 \times 5$$

$$B = -4 \times y^2 \times 5$$

$$B = -4 \times 5 \times y^2$$

$$B = -20y^2$$

$$\blacktriangleright 3. C = -7y - 10y$$

$$C = (-7 - 10)y$$

$$C = -17y$$

$$\blacktriangleright 4. D = -2a^2 \times 7$$

$$D = -2 \times a^2 \times 7$$

$$D = -2 \times 7 \times a^2$$

$$D = -14a^2$$

$$\blacktriangleright 5. E = -10y \times 6y$$

$$E = -10 \times y \times 6 \times y$$

$$E = -10 \times 6 \times y \times y$$

$$E = -60y^2$$

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

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

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

$$F = -60a^2$$

$$\blacktriangleright 7. G = 10a + 6a$$

$$G = (10 + 6)a$$

$$G = 16a$$

$$\blacktriangleright 8. H = -5t - (-6t)$$

$$H = (-5 + 6)t$$

$$H = t$$

$$\blacktriangleright 9. I = -2 \times 10y^2$$

$$I = -2 \times 10 \times y^2$$

$$I = -20y^2$$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►1. $A = -7 \times 4x^2$

$$A = -7 \times 4 \times x^2$$

$$A = -28x^2$$

►2. $B = 8x^2 + 6x^2$

$$B = (8 + 6) x^2$$

$$B = 14x^2$$

►3. $C = 9a - (-5a)$

$$C = (9 + 5) a$$

$$C = 14a$$

►4. $D = 9t \times 10t$

$$D = 9 \times t \times 10 \times t$$

$$D = 9 \times 10 \times t \times t$$

$$D = 90t^2$$

►5. $E = 10x \times (-7)$

$$E = 10 \times x \times (-7)$$

$$E = 10 \times (-7) \times x$$

$$E = -70x$$

►6. $F = -4a^2 - 6$

►7. $G = -x - 8x^2$

$$G = -8x^2 - x$$

►8. $H = 10 \times (-2y^2)$

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

$$H = -20y^2$$

►9. $I = 10 \times 10t^2$

$$I = 10 \times 10 \times t^2$$

$$I = 100t^2$$