

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -7t^2 - (-t^2)$

$$A = (-7 + 1)t^2$$

$$A = -6t^2$$

▶2. $B = 1 \times (-2y^2)$

$$B = 1 \times (-2) \times y^2$$

$$B = -2y^2$$

▶3. $C = -7 \times 2t^2$

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

$$C = -14t^2$$

▶4. $D = -6y - (-8y)$

$$D = (-6 + 8)y$$

$$D = 2y$$

▶5. $E = t^2 \times (-5)$

$$E = -5 \times t^2$$

$$E = -5t^2$$

▶6. $F = -t^2 \times (-3)$

$$F = -1 \times t^2 \times (-3)$$

$$F = -1 \times (-3) \times t^2$$

$$F = 3t^2$$

▶7. $G = -10 \times (-a)$

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

$$G = 10a$$

▶8. $H = 8y - 7y$

$$H = (8 - 7)y$$

$$H = y$$

▶9. $I = 3x - (-7x)$

$$I = (3 + 7)x$$

$$I = 10x$$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = 6a^2 \times 1$

$$A = 6 \times a^2 \times 1$$

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

$$A = 6a^2$$

▶2. $B = -2 \times 4x^2$

$$B = -2 \times 4 \times x^2$$

$$B = -8x^2$$

▶3. $C = -5a \times (-9)$

$$C = -5 \times a \times (-9)$$

$$C = -5 \times (-9) \times a$$

$$C = 45a$$

▶4. $D = 3x^2 \times (-7)$

$$D = 3 \times x^2 \times (-7)$$

$$D = 3 \times (-7) \times x^2$$

$$D = -21x^2$$

▶5. $E = -2x^2 - 3x^2$

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

$$E = -5x^2$$

▶6. $F = 7a^2 - (-9a^2)$

$$F = (7 + 9)a^2$$

$$F = 16a^2$$

▶7. $G = -8x \times (-3)$

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

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

$$G = 24x$$

▶8. $H = -4y^2 \times 6$

$$H = -4 \times y^2 \times 6$$

$$H = -4 \times 6 \times y^2$$

$$H = -24y^2$$

▶9. $I = -6x \times 5$

$$I = -6 \times x \times 5$$

$$I = -6 \times 5 \times x$$

$$I = -30x$$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 9a^2 - 10a$

▶2. $B = 6x + 4x$

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

$$B = 10x$$

▶3. $C = -8x \times (-5)$

$$C = -8 \times x \times (-5)$$

$$C = -8 \times (-5) \times x$$

$$C = 40x$$

▶4. $D = -6y \times 2$

$$D = -6 \times y \times 2$$

$$D = -6 \times 2 \times y$$

$$D = -12y$$

►5. $E = -3a \times 8$

$$E = -3 \times a \times 8$$

$$E = -3 \times 8 \times a$$

$$E = -24a$$

►6. $F = -5t - (-6t)$

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

$$F = t$$

►7. $G = x^2 \times 2$

$$G = 2 \times x^2$$

$$G = 2x^2$$

►8. $H = 9a^2 + a^2$

$$H = (9 + 1)a^2$$

$$H = 10a^2$$

►9. $I = 9x^2 \times 3$

$$I = 9 \times x^2 \times 3$$

$$I = 9 \times 3 \times x^2$$

$$I = 27x^2$$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

►1. $A = -9y^2 \times (-1)$

$$A = -9 \times y^2 \times (-1)$$

$$A = -9 \times (-1) \times y^2$$

$$A = 9y^2$$

►2. $B = 9t^2 - (-6t^2)$

$$B = (9 + 6)t^2$$

$$B = 15t^2$$

►3. $C = -6x^2 \times 4$

$$C = -6 \times x^2 \times 4$$

$$C = -6 \times 4 \times x^2$$

$$C = -24x^2$$

►4. $D = -2a \times 9$

$$D = -2 \times a \times 9$$

$$D = -2 \times 9 \times a$$

$$D = -18a$$

►5. $E = 2t - (-3t)$

$$E = (2 + 3)t$$

$$E = 5t$$

►6. $F = -7a + a$

$$F = (-7 + 1)a$$

$$F = -6a$$

►7. $G = 3t - 2t^2$

$$G = -2t^2 + 3t$$

►8. $H = 2y^2 - 8y^2$

$$H = (2 - 8)y^2$$

$$H = -6y^2$$

►9. $I = 4x - 6x$

$$I = (4 - 6)x$$

$$I = -2x$$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

►1. $A = -x^2 + 10x^2$

$$A = (-1 + 10)x^2$$

$$A = 9x^2$$

►2. $B = -7y \times (-8y)$

$$B = -7 \times y \times (-8) \times y$$

$$B = -7 \times (-8) \times y \times y$$

$$B = 56y^2$$

►3. $C = 3y^2 \times (-1)$

$$C = 3 \times y^2 \times (-1)$$

$$C = 3 \times (-1) \times y^2$$

$$C = -3y^2$$

►4. $D = 3 \times (-7y^2)$

$$D = 3 \times (-7) \times y^2$$

$$D = -21y^2$$

►5. $E = 5x - 7x$

$$E = (5 - 7)x$$

$$E = -2x$$

►6. $F = 3y^2 + 6y^2$

$$F = (3 + 6)y^2$$

$$F = 9y^2$$

►7. $G = -9 \times t^2$

$$G = -9t^2$$

►8. $H = -4t^2 \times (-8)$

$$H = -4 \times t^2 \times (-8)$$

$$H = -4 \times (-8) \times t^2$$

$$H = 32t^2$$

►9. $I = 7x^2 - (-4x^2)$

$$I = (7 + 4)x^2$$

$$I = 11x^2$$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►1. $A = 5t \times (-3)$

$$A = 5 \times t \times (-3)$$

$$A = 5 \times (-3) \times t$$

$$A = -15t$$

►2. $B = 8 \times (-8t)$

$$B = 8 \times (-8) \times t$$

$$B = -64t$$

►3. $C = 6 \times 5a^2$

$$C = 6 \times 5 \times a^2$$

$$C = 30a^2$$

►4. $D = -6a - 6$

►5. $E = -3t^2 - 7t$

►6. $F = 10t^2 + t^2$

$$F = (10 + 1) t^2$$

$$F = 11t^2$$

►7. $G = -8x^2 - (-3x^2)$

$$G = (-8 + 3) x^2$$

$$G = -5x^2$$

►8. $H = 9t^2 + 8t^2$

$$H = (9 + 8) t^2$$

$$H = 17t^2$$

►9. $I = 10y^2 \times (-10)$

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

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

$$I = -100y^2$$