

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -8y^2 + 8y^2$

$$A = (-8 + 8) y^2$$

$$A = 0$$

▶2. $B = 7x^2 + 10x^2$

$$B = (7 + 10) x^2$$

$$B = 17x^2$$

▶3. $C = -x^2 - (-9x)$

$$C = -x^2 + 9x$$

▶4. $D = 10 \times 5y$

$$D = 10 \times 5 \times y$$

$$D = 50y$$

▶5. $E = t^2 - 9t^2$

$$E = (1 - 9) t^2$$

$$E = -8t^2$$

▶6. $F = 9t^2 - (-8t^2)$

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

$$F = 17t^2$$

▶7. $G = 1 \times (-5y^2)$

$$G = 1 \times (-5) \times y^2$$

$$G = -5y^2$$

▶8. $H = 4t \times (-3t)$

$$H = 4 \times t \times (-3) \times t$$

$$H = 4 \times (-3) \times t \times t$$

$$H = -12t^2$$

▶9. $I = -2t^2 - 5t^2$

$$I = (-2 - 5) t^2$$

$$I = -7t^2$$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = 10a^2 \times (-5)$

$$A = 10 \times a^2 \times (-5)$$

$$A = 10 \times (-5) \times a^2$$

$$A = -50a^2$$

▶2. $B = 9y^2 \times 7$

$$B = 9 \times y^2 \times 7$$

$$B = 9 \times 7 \times y^2$$

$$B = 63y^2$$

▶3. $C = -3 \times (-4x^2)$

$$C = -3 \times (-4) \times x^2$$

$$C = 12x^2$$

▶4. $D = -9 \times (-4t)$

$$D = -9 \times (-4) \times t$$

$$D = 36t$$

▶5. $E = -6x^2 \times (-2)$

$$E = -6 \times x^2 \times (-2)$$

$$E = -6 \times (-2) \times x^2$$

$$E = 12x^2$$

▶6. $F = 5 \times y$

$$F = 5y$$

▶7. $G = 2a^2 - 6a^2$

$$G = (2 - 6) a^2$$

$$G = -4a^2$$

▶8. $H = -4x + 5x$

$$H = (-4 + 5) x$$

$$H = x$$

▶9. $I = 6t \times 5$

$$I = 6 \times t \times 5$$

$$I = 6 \times 5 \times t$$

$$I = 30t$$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 7t - 10t$

$$A = (7 - 10) t$$

$$A = -3t$$

▶2. $B = -7x - 7x$

$$B = (-7 - 7) x$$

$$B = -14x$$

▶3. $C = 2y^2 - 3y^2$

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

$$C = -y^2$$

▶4. $D = -8 \times (-t^2)$

$$D = -8 \times (-1) \times t^2$$

$$D = 8t^2$$

▶5. $E = -10t^2 - 7t^2$

$$E = (-10 - 7) t^2$$

$$E = -17t^2$$

▶6. $F = 7a - (-6)$

$$F = 7a + 6$$

$$\blacktriangleright 7. G = -4t^2 \times (-6)$$

$$G = -4 \times t^2 \times (-6)$$

$$G = -4 \times (-6) \times t^2$$

$$G = 24t^2$$

$$\blacktriangleright 8. H = -4 \times 6t^2$$

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

$$H = -24t^2$$

$$\blacktriangleright 9. I = -4y \times (-7y)$$

$$I = -4 \times y \times (-7) \times y$$

$$I = -4 \times (-7) \times y \times y$$

$$I = 28y^2$$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = t \times 10$$

$$A = 10 \times t$$

$$A = 10t$$

$$\blacktriangleright 2. B = -8t - 3t$$

$$B = (-8 - 3)t$$

$$B = -11t$$

$$\blacktriangleright 3. C = -2a \times 4$$

$$C = -2 \times a \times 4$$

$$C = -2 \times 4 \times a$$

$$C = -8a$$

$$\blacktriangleright 4. D = -7a^2 \times (-3)$$

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

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

$$D = 21a^2$$

$$\blacktriangleright 5. E = x^2 \times 3$$

$$E = 3 \times x^2$$

$$E = 3x^2$$

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

$$F = (-5 + 1)x^2$$

$$F = -4x^2$$

$$\blacktriangleright 7. G = -a^2 \times (-9)$$

$$G = -1 \times a^2 \times (-9)$$

$$G = -1 \times (-9) \times a^2$$

$$G = 9a^2$$

$$\blacktriangleright 8. H = -9a \times (-3)$$

$$H = -9 \times a \times (-3)$$

$$H = -9 \times (-3) \times a$$

$$H = 27a$$

$$\blacktriangleright 9. I = -4 \times (-4a^2)$$

$$I = -4 \times (-4) \times a^2$$

$$I = 16a^2$$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

$$\blacktriangleright 1. A = 7y^2 - 7y$$

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

$$B = -2 \times x^2 \times 5$$

$$B = -2 \times 5 \times x^2$$

$$B = -10x^2$$

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

$$C = (7 + 2)t^2$$

$$C = 9t^2$$

$$\blacktriangleright 4. D = -8a^2 - 4a^2$$

$$D = (-8 - 4)a^2$$

$$D = -12a^2$$

$$\blacktriangleright 5. E = 10x^2 - 6x$$

$$\blacktriangleright 6. F = -3x^2 + 10x^2$$

$$F = (-3 + 10)x^2$$

$$F = 7x^2$$

$$\blacktriangleright 7. G = 5a - 9a^2$$

$$G = -9a^2 + 5a$$

$$\blacktriangleright 8. H = a^2 \times 10$$

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

$$H = 10a^2$$

$$\blacktriangleright 9. I = -10x \times (-10)$$

$$I = -10 \times x \times (-10)$$

$$I = -10 \times (-10) \times x$$

$$I = 100x$$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►1. $A = -3 \times 7y$

$$A = -3 \times 7 \times y$$

$$A = -21y$$

►2. $B = 8x \times 6$

$$B = 8 \times x \times 6$$

$$B = 8 \times 6 \times x$$

$$B = 48x$$

►3. $C = -5a \times (-5a)$

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

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

$$C = 25a^2$$

►4. $D = 5x^2 + 10x^2$

$$D = (5 + 10) x^2$$

$$D = 15x^2$$

►5. $E = -a^2 - 8a^2$

$$E = (-1 - 8) a^2$$

$$E = -9a^2$$

►6. $F = -8t^2 \times (-2)$

$$F = -8 \times t^2 \times (-2)$$

$$F = -8 \times (-2) \times t^2$$

$$F = 16t^2$$

►7. $G = -3x^2 - 10x^2$

$$G = (-3 - 10) x^2$$

$$G = -13x^2$$

►8. $H = 6a^2 - (-8a^2)$

$$H = (6 + 8) a^2$$

$$H = 14a^2$$

►9. $I = 9 \times 6x^2$

$$I = 9 \times 6 \times x^2$$

$$I = 54x^2$$