

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

►1. $A = -x^2 - (-x)$

$$A = -x^2 + x$$

►2. $B = 4t - (-8t)$

$$B = (4 + 8) t$$

$$B = 12t$$

►3. $C = -a \times (-3)$

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

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

$$C = 3a$$

►4. $D = -2 \times 6y^2$

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

$$D = -12y^2$$

►5. $E = -3x^2 + 4$

►6. $F = 1 \times 2a$

$$F = 1 \times 2 \times a$$

$$F = 2a$$

►7. $G = -6x^2 - 4x$

►8. $H = a \times 4a$

$$H = a \times 4 \times a$$

$$H = 4 \times a \times a$$

$$H = 4a^2$$

►9. $I = -10a^2 - 6a^2$

$$I = (-10 - 6) a^2$$

$$I = -16a^2$$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

►1. $A = -4y^2 \times 9$

$$A = -4 \times y^2 \times 9$$

$$A = -4 \times 9 \times y^2$$

$$A = -36y^2$$

►2. $B = -2 \times (-5y^2)$

$$B = -2 \times (-5) \times y^2$$

$$B = 10y^2$$

►3. $C = -8t^2 - 3t^2$

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

$$C = -11t^2$$

►4. $D = 3x^2 \times (-1)$

$$D = 3 \times x^2 \times (-1)$$

$$D = 3 \times (-1) \times x^2$$

$$D = -3x^2$$

►5. $E = -3x^2 + 2x^2$

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

$$E = -x^2$$

►6. $F = -5x - (-9x)$

$$F = (-5 + 9) x$$

$$F = 4x$$

►7. $G = 7t - 1$

►8. $H = 8x \times 10$

$$H = 8 \times x \times 10$$

$$H = 8 \times 10 \times x$$

$$H = 80x$$

►9. $I = -5t^2 \times 10$

$$I = -5 \times t^2 \times 10$$

$$I = -5 \times 10 \times t^2$$

$$I = -50t^2$$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

►1. $A = -5x - 10x^2$

$$A = -10x^2 - 5x$$

►2. $B = -7y^2 \times 10$

$$B = -7 \times y^2 \times 10$$

$$B = -7 \times 10 \times y^2$$

$$B = -70y^2$$

►3. $C = 2a^2 - 3a^2$

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

$$C = -a^2$$

►4. $D = -10y - 9y$

$$D = (-10 - 9) y$$

$$D = -19y$$

►5. $E = -7 \times (-3x)$

$$E = -7 \times (-3) \times x$$

$$E = 21x$$

►6. $F = -7a \times 3a$

$$F = -7 \times a \times 3 \times a$$

$$F = -7 \times 3 \times a \times a$$

$$F = -21a^2$$

►7. $G = -2x^2 + 6x^2$

$$G = (-2 + 6) x^2$$

$$G = 4x^2$$

►8. $H = -4x^2 \times (-3)$
 $H = -4 \times x^2 \times (-3)$
 $H = -4 \times (-3) \times x^2$

$H = 12x^2$
 ►9. $I = -9y + 8y$
 $I = (-9 + 8)y$

$I = -y$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

►1. $A = -10a^2 \times (-1)$
 $A = -10 \times a^2 \times (-1)$
 $A = -10 \times (-1) \times a^2$
 $A = 10a^2$
 ►2. $B = -10x^2 + 10x^2$
 $B = (-10 + 10)x^2$
 $B = 0$
 ►3. $C = -10 \times (-6y^2)$
 $C = -10 \times (-6) \times y^2$
 $C = 60y^2$

►4. $D = -9x + x^2$
 $D = x^2 - 9x$
 ►5. $E = 9t^2 - (-2t^2)$
 $E = (9 + 2)t^2$
 $E = 11t^2$
 ►6. $F = 2x^2 + 7x^2$
 $F = (2 + 7)x^2$
 $F = 9x^2$
 ►7. $G = -2a^2 - 7$

►8. $H = 10y \times (-6y)$
 $H = 10 \times y \times (-6) \times y$
 $H = 10 \times (-6) \times y \times y$
 $H = -60y^2$
 ►9. $I = 8t^2 \times 9$
 $I = 8 \times t^2 \times 9$
 $I = 8 \times 9 \times t^2$
 $I = 72t^2$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

►1. $A = -x^2 \times 2$
 $A = -1 \times x^2 \times 2$
 $A = -1 \times 2 \times x^2$
 $A = -2x^2$
 ►2. $B = 8y + 3y$
 $B = (8 + 3)y$
 $B = 11y$
 ►3. $C = -10y^2 \times (-2)$
 $C = -10 \times y^2 \times (-2)$
 $C = -10 \times (-2) \times y^2$
 $C = 20y^2$

►4. $D = -4y - 4y$
 $D = (-4 - 4)y$
 $D = -8y$
 ►5. $E = 9y^2 \times 1$
 $E = 9 \times y^2 \times 1$
 $E = 9 \times y^2$
 $E = 9y^2$
 ►6. $F = 6x - 3x$
 $F = (6 - 3)x$
 $F = 3x$

►7. $G = 7y^2 \times (-8)$
 $G = 7 \times y^2 \times (-8)$
 $G = 7 \times (-8) \times y^2$
 $G = -56y^2$
 ►8. $H = -3 \times 7a$
 $H = -3 \times 7 \times a$
 $H = -21a$
 ►9. $I = 9y^2 - (-2y)$
 $I = 9y^2 + 2y$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

►1. $A = -4a - 6a$
 $A = (-4 - 6)a$

$A = -10a$

►2. $B = 3y \times (-8y)$
 $B = 3 \times y \times (-8) \times y$

$$B = 3 \times (-8) \times y \times y$$

$$B = -24 y^2$$

►3. $C = 9 x \times 1$

$$C = 9 \times x \times 1$$

$$C = 9 \times x$$

$$C = 9 x$$

►4. $D = 2 x^2 - (-9 x^2)$

$$D = (2 + 9) x^2$$

$$D = 11 x^2$$

►5. $E = -5 y^2 + 2 y^2$

$$E = (-5 + 2) y^2$$

$$E = -3 y^2$$

►6. $F = 10 a^2 \times 7$

$$F = 10 \times a^2 \times 7$$

$$F = 10 \times 7 \times a^2$$

$$F = 70 a^2$$

►7. $G = -2 y \times (-5 y)$

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

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

$$G = 10 y^2$$

►8. $H = -10 t - (-6 t)$

$$H = (-10 + 6) t$$

$$H = -4 t$$

►9. $I = 8 a - (-8 a)$

$$I = (8 + 8) a$$

$$I = 16 a$$