

Exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -3c^2 + 1$

▶2. $B = 6 \times 2k$

▶3. $C = -7 \times (-q^2)$

▶4. $D = 6x^2 + 9x^2$

▶5. $E = 6h^2 - 8h^2$

▶6. $F = 2d - (-10d)$

▶7. $G = -2z^2 - 6$

▶8. $H = -3c \times 4$

▶9. $I = -4a^2 + 9a^2$

Exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = -7w - (-9w)$

▶2. $B = 9 \times (-3b^2)$

▶3. $C = -d^2 - 7d$

▶4. $D = 5z^2 \times 1$

▶5. $E = -6r \times r$

▶6. $F = 4w - 5w$

▶7. $G = -n^2 - 5n^2$

▶8. $H = 10q \times 8q$

▶9. $I = 5r^2 \times 2$

Exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 5a^2 + 8a^2$

▶2. $B = d \times (-d)$

▶3. $C = 2m^2 \times (-4)$

▶4. $D = -4y^2 - 8y^2$

▶5. $E = 7a + 3a^2$

▶6. $F = -9f^2 - f^2$

▶7. $G = -2w - 2w$

▶8. $H = -9b - 9b$

▶9. $I = -6k^2 \times (-10)$

Exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = -6g^2 - 3g^2$

▶2. $B = -t^2 \times (-6)$

▶3. $C = 2t + 6t$

▶4. $D = -8m^2 \times 2$

▶5. $E = -5a^2 \times 5$

▶6. $F = -g^2 \times 8$

▶7. $G = 9 \times 4p^2$

▶8. $H = 6 \times (-8g)$

▶9. $I = 7f \times (-9)$

Exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = 5h - (-4h)$

▶2. $B = 7 \times 8q^2$

▶3. $C = 5v^2 \times (-8)$

▶4. $D = 9z - 6$

▶5. $E = 8d - 7d$

▶6. $F = -6u^2 - (-10u^2)$

▶7. $G = 2 \times (-5u^2)$

▶8. $H = -2m^2 - 5m^2$

▶9. $I = 4m^2 \times (-4)$

Exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = 2 \times (-x^2)$

▶2. $B = -7 \times 9t$

▶3. $C = 8r \times 5r$

▶4. $D = 7t^2 - (-7t)$

▶5. $E = 6d^2 - 9d^2$

▶6. $F = -6 \times (-7k)$

▶7. $G = 2b \times (-7b)$

▶8. $H = -9v + 2v$

▶9. $I = -6v \times 7v$

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = -3c^2 + 1$

▶2. $B = 6 \times 2k$

$B = 6 \times 2 \times k$

$B = 12k$

▶3. $C = -7 \times (-q^2)$

$C = -7 \times (-1) \times q^2$

$C = 7q^2$

▶4. $D = 6x^2 + 9x^2$

$D = (6 + 9) \times x^2$

$D = 15x^2$

▶5. $E = 6h^2 - 8h^2$

$E = (6 - 8) \times h^2$

$E = -2h^2$

▶6. $F = 2d - (-10d)$

$F = 2d + 10d$

$F = (2 + 10) \times d$

$F = 12d$

▶7. $G = -2z^2 - 6$

▶8. $H = -3c \times 4$

$H = -3 \times 4 \times c$

$H = -12c$

▶9. $I = -4a^2 + 9a^2$

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

$I = 5a^2$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = -7w - (-9w)$

$A = -7w + 9w$

$A = (-7 + 9) \times w$

$A = 2w$

▶2. $B = 9 \times (-3b^2)$

$B = 9 \times (-3) \times b^2$

$B = -27b^2$

▶3. $C = -d^2 - 7d$

▶4. $D = 5z^2 \times 1$

$D = 5z^2$

▶5. $E = -6r \times r$

$E = -6r^2$

▶6. $F = 4w - 5w$

$F = (4 - 5) \times w$

$F = -w$

▶7. $G = -n^2 - 5n^2$

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

$G = -6n^2$

▶8. $H = 10q \times 8q$

$H = 10 \times 8 \times q \times q$

$H = 80q^2$

▶9. $I = 5r^2 \times 2$

$I = 5 \times 2 \times r^2$

$I = 10r^2$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 5a^2 + 8a^2$

$A = (5 + 8) \times a^2$

$A = 13a^2$

▶2. $B = d \times (-d)$

$B = (-1) \times d \times d$

$B = -d^2$

▶3. $C = 2m^2 \times (-4)$

$C = 2 \times (-4) \times m^2$

$C = -8m^2$

▶4. $D = -4y^2 - 8y^2$

$D = (-4 - 8) \times y^2$

$D = -12y^2$

▶5. $E = 7a + 3a^2$

▶6. $F = -9f^2 - f^2$

$F = (-9 - 1) \times f^2$

$F = -10f^2$

▶7. $G = -2w - 2w$

$G = (-2 - 2) \times w$

$G = -4w$

▶8. $H = -9b - 9b$

$H = (-9 - 9) \times b$

$H = -18b$

▶9. $I = -6k^2 \times (-10)$

$I = -6 \times (-10) \times k^2$

$I = 60k^2$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = -6g^2 - 3g^2$

$$A = (-6 - 3) \times g^2$$

$$A = -9g^2$$

▶2. $B = -t^2 \times (-6)$

$$B = -1 \times (-6) \times t^2$$

$$B = 6t^2$$

▶3. $C = 2t + 6t$

$$C = (2 + 6) \times t$$

$$C = 8t$$

▶4. $D = -8m^2 \times 2$

$$D = -8 \times 2 \times m^2$$

$$D = -16m^2$$

▶5. $E = -5a^2 \times 5$

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

$$E = -25a^2$$

▶6. $F = -g^2 \times 8$

$$F = -1 \times 8 \times g^2$$

$$F = -8g^2$$

▶7. $G = 9 \times 4p^2$

$$G = 9 \times 4 \times p^2$$

$$G = 36p^2$$

▶8. $H = 6 \times (-8g)$

$$H = 6 \times (-8) \times g$$

$$H = -48g$$

▶9. $I = 7f \times (-9)$

$$I = 7 \times (-9) \times f$$

$$I = -63f$$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = 5h - (-4h)$

$$A = 5h + 4h$$

$$A = (5 + 4) \times h$$

$$A = 9h$$

▶2. $B = 7 \times 8q^2$

$$B = 7 \times 8 \times q^2$$

$$B = 56q^2$$

▶3. $C = 5v^2 \times (-8)$

$$C = 5 \times (-8) \times v^2$$

$$C = -40v^2$$

▶4. $D = 9z - 6$

▶5. $E = 8d - 7d$

$$E = (8 - 7) \times d$$

$$E = d$$

▶6. $F = -6u^2 - (-10u^2)$

$$F = -6u^2 + 10u^2$$

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

$$F = 4u^2$$

▶7. $G = 2 \times (-5u^2)$

$$G = 2 \times (-5) \times u^2$$

$$G = -10u^2$$

▶8. $H = -2m^2 - 5m^2$

$$H = (-2 - 5) \times m^2$$

$$H = -7m^2$$

▶9. $I = 4m^2 \times (-4)$

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

$$I = -16m^2$$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = 2 \times (-x^2)$

$$A = 2 \times (-1) \times x^2$$

$$A = -2x^2$$

▶2. $B = -7 \times 9t$

$$B = -7 \times 9 \times t$$

$$B = -63t$$

▶3. $C = 8r \times 5r$

$$C = 8 \times 5 \times r \times r$$

$$C = 40r^2$$

▶4. $D = 7t^2 - (-7t)$

$$D = 7t^2 + 7t$$

▶5. $E = 6d^2 - 9d^2$

$$E = (6 - 9) \times d^2$$

$$E = -3d^2$$

▶6. $F = -6 \times (-7k)$

$$F = -6 \times (-7) \times k$$

$$F = 42k$$

▶7. $G = 2b \times (-7b)$

$$G = 2 \times (-7) \times b \times b$$

$$G = -14b^2$$

$$\blacktriangleright 8. H = -9v + 2v$$

$$H = (-9 + 2) \times v$$

$$H = -7v$$

$$\blacktriangleright 9. I = -6v \times 7v$$

$$I = -6 \times 7 \times v \times v$$

$$I = -42v^2$$