

Exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = 4k^2 - 6k^2$

▶2. $B = 2u - (-6u)$

▶3. $C = 7w - 2w$

▶4. $D = -4v + 3v$

▶5. $E = 8u^2 + 10u^2$

▶6. $F = 2y - 7y$

▶7. $G = 6w^2 - (-7w^2)$

▶8. $H = 6x \times (-x)$

▶9. $I = 10 \times 9p$

Exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = -4m^2 - (-8m^2)$

▶2. $B = -2b^2 + 2$

▶3. $C = -6w^2 - w^2$

▶4. $D = 3t^2 - 10$

▶5. $E = 3h \times (-9h)$

▶6. $F = -2h \times 7$

▶7. $G = 5w \times 7$

▶8. $H = -9 \times (-4u^2)$

▶9. $I = -2v^2 - (-8v^2)$

Exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 8u^2 + 10$

▶2. $B = 6 \times 4x^2$

▶3. $C = 8u^2 \times (-10)$

▶4. $D = -2w - 2w^2$

▶5. $E = 9v^2 - (-10v^2)$

▶6. $F = -6c \times (-8)$

▶7. $G = -2r \times (-10r)$

▶8. $H = 3m^2 - 10m^2$

▶9. $I = 4b^2 \times 4$

Exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = 8z^2 \times 8$

▶2. $B = 3 \times (-4t)$

▶3. $C = -5 \times 7a$

▶4. $D = -9t^2 \times 10$

▶5. $E = -9c^2 + 9c^2$

▶6. $F = -7n^2 \times 10$

▶7. $G = -6a - 9a$

▶8. $H = -2w^2 \times (-10)$

▶9. $I = -5t - 9t$

Exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = 3p \times 2p$

▶2. $B = y - 7y$

▶3. $C = -6h - 3h$

▶4. $D = -6s \times (-3s)$

▶5. $E = 1 \times (-4m)$

▶6. $F = 8h + 5h$

▶7. $G = 4z - (-4z)$

▶8. $H = -7a + 4a$

▶9. $I = -2h^2 - (-9h^2)$

Exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = 9q^2 \times 7$

▶2. $B = -4 \times 4g$

▶3. $C = -a \times a$

▶4. $D = -4z^2 - 4z^2$

▶5. $E = -9q^2 \times 8$

▶6. $F = 7h^2 \times 1$

▶7. $G = -2k - 5k$

▶8. $H = -10s - 8s$

▶9. $I = 1 \times 10h^2$

Corrigé de l'exercice 1

Réduire, si possible, les expressions suivantes :

▶1. $A = 4k^2 - 6k^2$

$$A = (4 - 6) \times k^2$$

$$A = -2k^2$$

▶2. $B = 2u - (-6u)$

$$B = 2u + 6u$$

$$B = (2 + 6) \times u$$

$$B = 8u$$

▶3. $C = 7w - 2w$

$$C = (7 - 2) \times w$$

$$C = 5w$$

▶4. $D = -4v + 3v$

$$D = (-4 + 3) \times v$$

$$D = -v$$

▶5. $E = 8u^2 + 10u^2$

$$E = (8 + 10) \times u^2$$

$$E = 18u^2$$

▶6. $F = 2y - 7y$

$$F = (2 - 7) \times y$$

$$F = -5y$$

▶7. $G = 6w^2 - (-7w^2)$

$$G = 6w^2 + 7w^2$$

$$G = (6 + 7) \times w^2$$

$$G = 13w^2$$

▶8. $H = 6x \times (-x)$

$$H = 6 \times (-1) \times x \times x$$

$$H = -6x^2$$

▶9. $I = 10 \times 9p$

$$I = 10 \times 9 \times p$$

$$I = 90p$$

Corrigé de l'exercice 2

Réduire, si possible, les expressions suivantes :

▶1. $A = -4m^2 - (-8m^2)$

$$A = -4m^2 + 8m^2$$

$$A = (-4 + 8) \times m^2$$

$$A = 4m^2$$

▶2. $B = -2b^2 + 2$

▶3. $C = -6w^2 - w^2$

$$C = (-6 - 1) \times w^2$$

$$C = -7w^2$$

▶4. $D = 3t^2 - 10$

▶5. $E = 3h \times (-9h)$

$$E = 3 \times (-9) \times h \times h$$

$$E = -27h^2$$

▶6. $F = -2h \times 7$

$$F = -2 \times 7 \times h$$

$$F = -14h$$

▶7. $G = 5w \times 7$

$$G = 5 \times 7 \times w$$

$$G = 35w$$

▶8. $H = -9 \times (-4u^2)$

$$H = -9 \times (-4) \times u^2$$

$$H = 36u^2$$

▶9. $I = -2v^2 - (-8v^2)$

$$I = -2v^2 + 8v^2$$

$$I = (-2 + 8) \times v^2$$

$$I = 6v^2$$

Corrigé de l'exercice 3

Réduire, si possible, les expressions suivantes :

▶1. $A = 8u^2 + 10$

▶2. $B = 6 \times 4x^2$

$$B = 6 \times 4 \times x^2$$

$$B = 24x^2$$

▶3. $C = 8u^2 \times (-10)$

$$C = 8 \times (-10) \times u^2$$

$$C = -80u^2$$

▶4. $D = -2w - 2w^2$

▶5. $E = 9v^2 - (-10v^2)$

$$E = 9v^2 + 10v^2$$

$$E = (9 + 10) \times v^2$$

$$E = 19v^2$$

▶6. $F = -6c \times (-8)$

$$F = -6 \times (-8) \times c$$

$$F = 48c$$

▶7. $G = -2r \times (-10r)$

$$G = -2 \times (-10) \times r \times r$$

$$G = 20r^2$$

▶8. $H = 3m^2 - 10m^2$

$$H = (3 - 10) \times m^2$$

$$H = -7m^2$$

▶9. $I = 4b^2 \times 4$

$$I = 4 \times 4 \times b^2$$

$$I = 16b^2$$

Corrigé de l'exercice 4

Réduire, si possible, les expressions suivantes :

▶1. $A = 8z^2 \times 8$

$$A = 8 \times 8 \times z^2$$

$$A = 64z^2$$

▶2. $B = 3 \times (-4t)$

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

$$B = -12t$$

▶3. $C = -5 \times 7a$

$$C = -5 \times 7 \times a$$

$$C = -35a$$

▶4. $D = -9t^2 \times 10$

$$D = -9 \times 10 \times t^2$$

$$D = -90t^2$$

▶5. $E = -9c^2 + 9c^2$

$$E = (-9 + 9) \times c^2$$

$$E = 0$$

▶6. $F = -7n^2 \times 10$

$$F = -7 \times 10 \times n^2$$

$$F = -70n^2$$

▶7. $G = -6a - 9a$

$$G = (-6 - 9) \times a$$

$$G = -15a$$

▶8. $H = -2w^2 \times (-10)$

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

$$H = 20w^2$$

▶9. $I = -5t - 9t$

$$I = (-5 - 9) \times t$$

$$I = -14t$$

Corrigé de l'exercice 5

Réduire, si possible, les expressions suivantes :

▶1. $A = 3p \times 2p$

$$A = 3 \times 2 \times p \times p$$

$$A = 6p^2$$

▶2. $B = y - 7y$

$$B = (1 - 7) \times y$$

$$B = -6y$$

▶3. $C = -6h - 3h$

$$C = (-6 - 3) \times h$$

$$C = -9h$$

▶4. $D = -6s \times (-3s)$

$$D = -6 \times (-3) \times s \times s$$

$$D = 18s^2$$

▶5. $E = 1 \times (-4m)$

$$E = (-4) \times m$$

$$E = -4m$$

▶6. $F = 8h + 5h$

$$F = (8 + 5) \times h$$

$$F = 13h$$

▶7. $G = 4z - (-4z)$

$$G = 4z + 4z$$

$$G = (4 + 4) \times z$$

$$G = 8z$$

▶8. $H = -7a + 4a$

$$H = (-7 + 4) \times a$$

$$H = -3a$$

▶9. $I = -2h^2 - (-9h^2)$

$$I = -2h^2 + 9h^2$$

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

$$I = 7h^2$$

Corrigé de l'exercice 6

Réduire, si possible, les expressions suivantes :

▶1. $A = 9q^2 \times 7$

$$A = 9 \times 7 \times q^2$$

$$A = 63q^2$$

▶2. $B = -4 \times 4g$

$$B = -4 \times 4 \times g$$

$$B = -16g$$

▶3. $C = -a \times a$

$$C = -a^2$$

▶4. $D = -4z^2 - 4z^2$

$$D = (-4 - 4) \times z^2$$

$$D = -8z^2$$

▶5. $E = -9q^2 \times 8$

$$E = -9 \times 8 \times q^2$$

$$E = -72q^2$$

▶6. $F = 7h^2 \times 1$

$$F = 7h^2$$

$$\blacktriangleright 7. G = -2k - 5k$$

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

$$G = -7k$$

$$\blacktriangleright 8. H = -10s - 8s$$

$$H = (-10 - 8) \times s$$

$$H = -18s$$

$$\blacktriangleright 9. I = 1 \times 10h^2$$

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

$$I = 10h^2$$