Correction contrôle 11 décembre

Exercice 1

a) $\mathcal{V} = (4\,cm)^3 = \underline{64\,cm^3}$.

b) $\mathcal{V} = (3\,mm) \times (5\,dm) \times (2\,mm) = (0{,}3\,cm) \times (50\,cm) \times (0{,}2\,cm)$
$= \underline{3\,cm^3}$

c) $\mathcal{V} = \frac{1}{3}\pi \times (3\,cm)^2 \times (4\,cm) = \frac{36\pi}{3}\,cm^3 = \underline{12\pi\,cm^3}$
$\underline{\simeq 38\,cm^3}$

d) La base mesure $\mathcal{B} = (2\,cm)^2 = 4\,cm^2$ donc $\mathcal{V} = \frac{1}{3} \times (4\,cm^2) \times 3\,cm = \underline{4\,cm^3}$.

Exercice 2

a) $(y+5) - (y+2) = y + 5 - y - 2 = y - y + 5 - 2 = \underline{3}$

a) $(x+1) - (x+2) = x + 1 - x - 2 = x - x + 1 - 2 = \underline{-1}$

b) $5 \times (x+3) = 5 \times x + 5 \times 3 = \underline{5x + 15}$

b) $6 \times (y-1) = 6 \times y - 6 \times 1 = \underline{6y - 6}$

c) $(x+1) \times 2 - 4 \times (x-1) = x \times 2 + 1 \times 2 - (4 \times x - 4 \times 1)$
$= 2x + 2 - (4x - 4)$
$= 2x + 2 - 4x + 4$
$= 2x - 4x + 2 + 4$
$= \underline{-2x + 6}$

c) $(y+2) \times 2 - 3 \times (y-1) = y \times 2 + 2 \times 2 - (3 \times y - 3 \times 1)$
$= 2y + 4 - (3y - 3)$
$= 2y + 4 - 3y + 3$
$= 2y - 3y + 4 + 3$
$= \underline{-y + 7}$