

Exercice 1

1) Calculer l'aire de la chambre 1 :

$$6,86 \times 6,23 \approx 20,56 \text{ m}^2$$

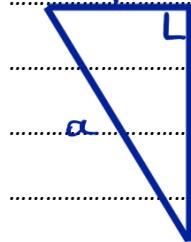
2) Calculer l'aire de la chambre 2 :

$$9,17 - 0,25 - 6,23 - 0,10 - 0,25 = 4,34$$

$$6,86 \times 4,34 \approx 21,09 \text{ m}^2$$

3) Calculer la longueur du mur oblique du bureau (appelé a) :

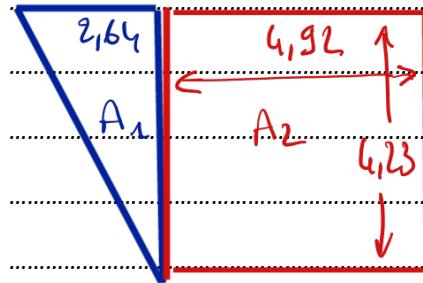
$$2,64 \leftarrow (7,56 - 4,92)$$



$$a = \sqrt{2,64^2 + 4,23^2} \approx 4,99 \text{ m}$$

4) Calculer l'aire du bureau :

$$A_1 = \frac{2,64 \times 4,23}{2} = 5,5836$$



$$A_2 = 4,92 \times 4,23 = 20,8116$$

$$A \approx 26,16 \text{ m}^2$$

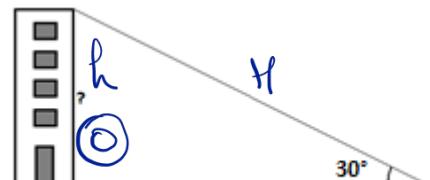
Exercice 2

Calculer la hauteur de l'immeuble :

B/A

$$\tan 30^\circ = \frac{h}{70}$$

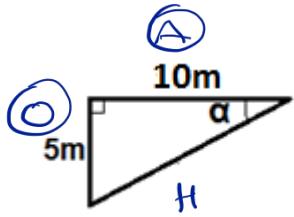
$$h = 70 \tan 30^\circ \approx 60,6 \text{ m}$$



Exercice 3

Calculer l'angle α :

TOA

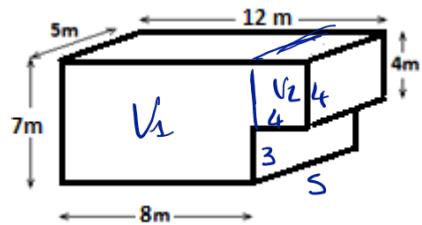


$$\tan \alpha = \frac{5}{10} \quad \alpha = \arctan \left(\frac{5}{10} \right) \approx 26,6^\circ$$

Exercice 4

Calculer le volume du container

$$V_1 = 8 \times 7 \times 5 = 280 \text{ m}^3$$



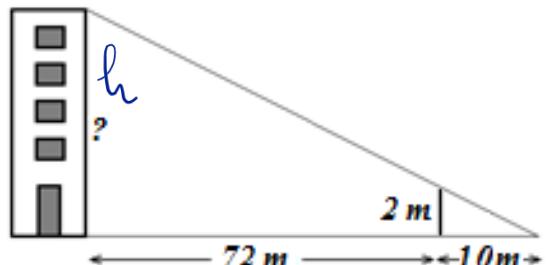
$$V_2 = 4 \times 4 \times 5 = 80 \text{ m}^3$$

$$V = 360 \text{ m}^3$$

Exercice 5

Calculer la hauteur de l'immeuble :

| | | |
|----|-----|--|
| 10 | 2 | |
| 82 | h | |



$$h = \frac{2 \times 82}{10} = 16,4 \text{ m.}$$