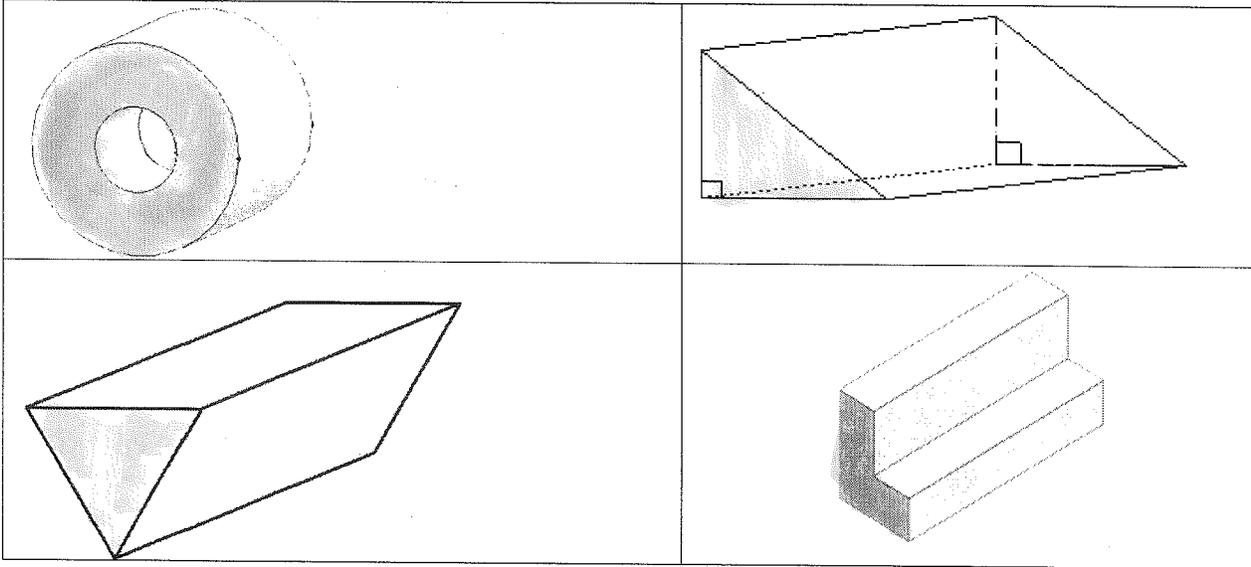
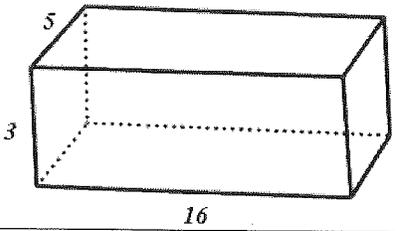
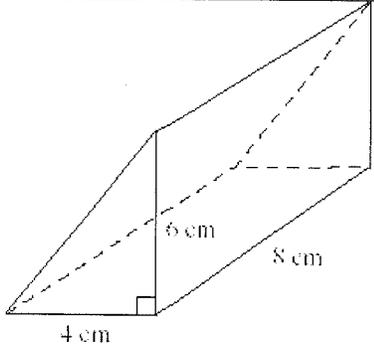


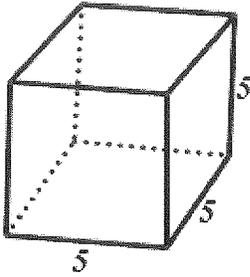
Le volume d'un objet 3D avec des murs verticaux = Aire base \times Hauteur

1. Hachure la base des objets suivants :

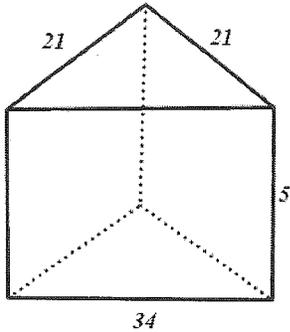


2. Quelle est la valeur des volumes des objets suivants ?

Objet	Volume
	$16 \times 3 \times 5 = 240 u^3$
	$\text{Aire base} = \frac{6 \times 4}{2} = 12 u^2$ $V = 12 \cdot 8 = 96 u^3$



$$25 \times 5 = \boxed{125u^3}$$

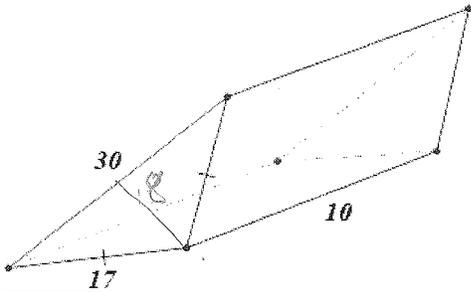


$$\text{Area base} \approx 209,59$$

$$h^2 = 152$$

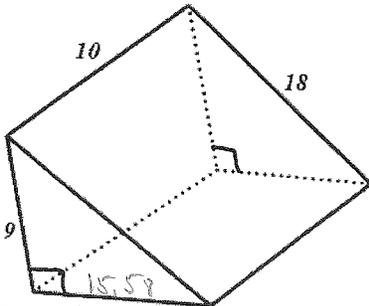
$$h \approx 12,32$$

$$V \approx \boxed{1047,95u^3}$$



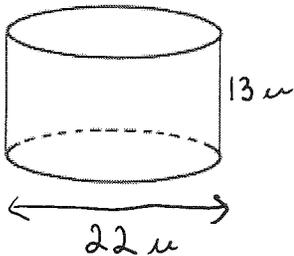
$$\text{Area base} = 120u^2$$

$$V = \boxed{1200u^3}$$



$$\text{Area base} = \frac{15,58 \times 9}{2} \approx 70,14$$

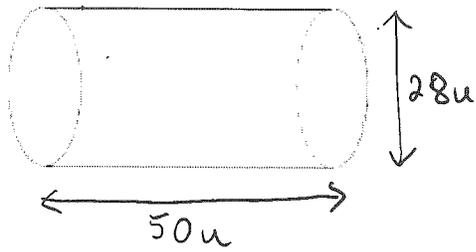
$$V = \boxed{701,48u^3}$$



$$\text{Area base} = 11^2 \cdot \pi = 121\pi$$

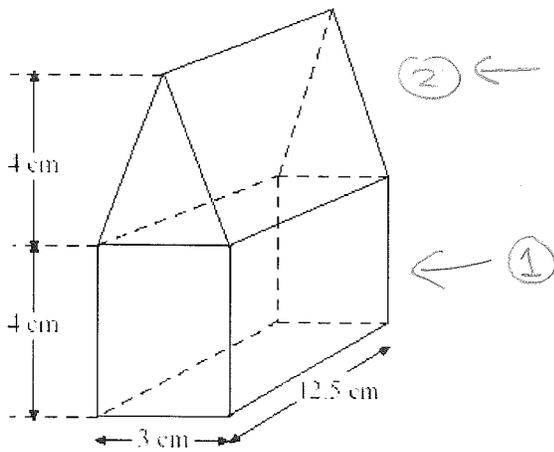
$$V = 121\pi \cdot 13 = \boxed{1573\pi u^3}$$

$$V \approx \boxed{4941,72u^3}$$



$$V = 14^2 \cdot \pi \cdot 50 = 9800\pi$$

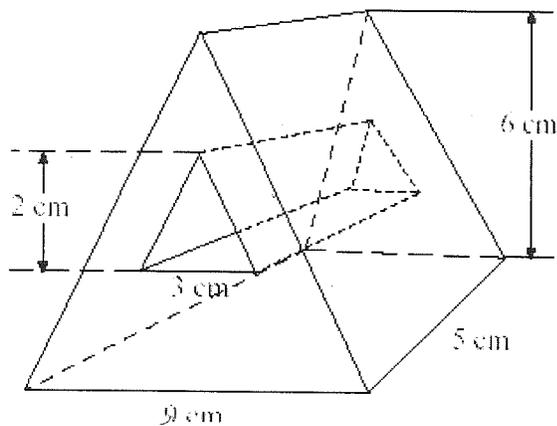
$$V \approx 30787,64^3$$



$$\text{Boîte 1 : } V = 4 \cdot 3 \cdot 12,5 = 150 \text{ u}^3$$

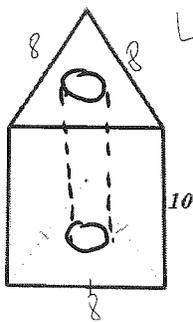
$$\text{Boîte 2 : } \text{Vol} = \frac{\text{Vol boîte 1}}{2} \rightarrow \text{pourquoi ?} \\ = 75 \text{ u}^2$$

$$\text{Vol total} = 225 \text{ cm}^3$$



$$\text{Aire base : Aire Grand } \Delta - \text{Aire Petit } \Delta = \\ = \frac{9 \cdot 6}{2} - \frac{2 \cdot 3}{2} = 24 \text{ u}^2$$

$$V = 24 \cdot 5 = 120 \text{ cm}^3$$



La prisme a un trou en forme de cylindre de rayon $D = 3 \text{ cm}$

$$\text{Aire } \Delta \approx 27,71$$

$$\text{Aire cercle} = 2,25\pi \approx 7,06$$

$$\text{Aire base} = \Delta - \text{cercle} \approx 20,64$$

$$V \approx 206,41 \text{ cm}^3$$