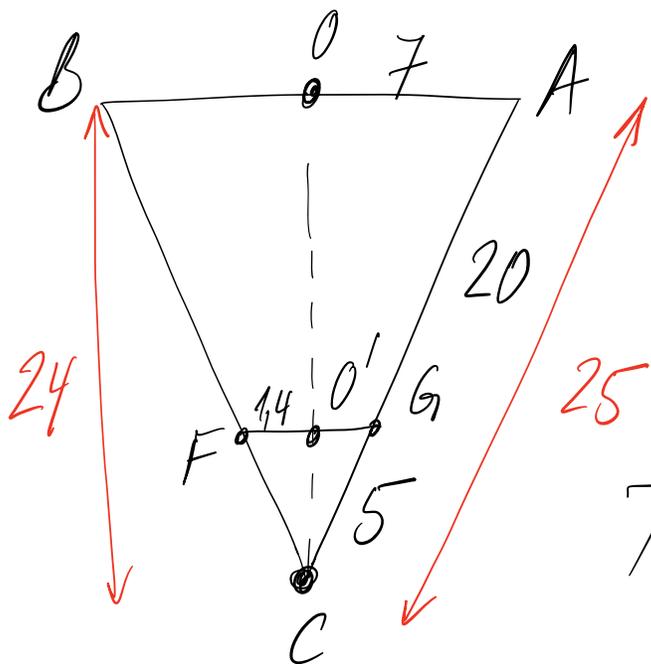


$$AB = 14 \Rightarrow OA = 7$$

$$V_{\text{cyl.}} = \pi \cdot 7^2 \cdot 4 = 196\pi \text{ cm}^3$$



$$OC = \sqrt{25^2 - 7^2} = 24$$

Thales: $\frac{O'G}{OA} = \frac{CG}{CA} = \frac{5}{25} = \frac{1}{5}$

$$O'G = \frac{OA}{5} = 1,4 \quad O'C = \frac{OC}{5} = 4,8$$

On nomme « ct »
le cône tronqué.

$$V_{\text{ct}} = \frac{1}{3} \cdot \pi \cdot 7^2 \cdot 24 - \frac{1}{3} \pi \cdot 1,4^2 \cdot 4,8$$

$$= 392\pi - 3,136\pi = 388,864\pi$$

même rapport

$$V_{\text{total}} = (388,864 + 196) \pi = 584,864 \pi \text{ cm}^3$$
$$\approx 1837,4044 \text{ cm}^3 \approx 1,84 \text{ l}$$

b) On pent.