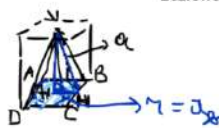


Lezione 26



$$\overline{AB} = 8 \text{ cm}$$

$$\overline{VH} = 3 \text{ cm}$$

$$A_T = ?$$

$$A_B = \overline{AB}^2 = (8 \text{ cm})^2 = 64 \text{ cm}^2 \quad V = ?$$

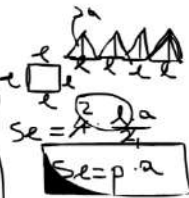
$$A_T = A_B + S_L$$

$$S_L = p \cdot a$$

APOTEMMA

$$a = \frac{2A}{2p}$$

$$\frac{2 \cdot 64}{2 \cdot 4} = \frac{a}{2}$$



$$A = \frac{a \cdot 2p}{2}$$

A REA
DEI
POLIGONI
REGOLARI

$$\overline{VH} = \sqrt{\overline{VH}^2 + \overline{HM}^2} = \sqrt{(3 \text{ cm})^2 + (4 \text{ cm})^2} = \sqrt{9 \text{ cm}^2 + 16 \text{ cm}^2}$$

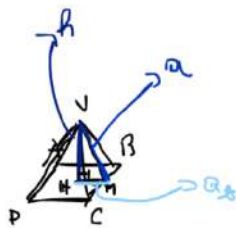
$$= \sqrt{25 \text{ cm}^2} = 5 \text{ cm}$$

$$S_L = p \cdot \overline{VH} = 2 \overline{AB} \cdot \overline{VH} = 16 \text{ cm} \cdot 5 \text{ cm} = 80 \text{ cm}^2$$

$$S_T = A_B + S_L = 80 \text{ cm}^2 + 64 \text{ cm}^2 = 144 \text{ cm}^2$$

$$V = \frac{1}{3} A_B \cdot \overline{VH} = \frac{1}{3} \cdot 64 \text{ cm}^2 \cdot 5 \text{ cm}$$

$$= \underline{\underline{64 \text{ cm}^3}}$$



$$\begin{aligned} \overline{AB} &= 70 \text{ cm} \\ \overline{VH} &= 60 \text{ cm} \\ A_T &=? \\ V &=? \end{aligned}$$

$$A_B = \overline{AB}^2 = (70 \text{ cm})^2 = 4900 \text{ cm}^2$$

$$V = \frac{1}{3} A_B \cdot \overline{VH} = \frac{1}{3} \cdot 4900 \text{ cm}^2 \cdot 60 \text{ cm} = 98000 \text{ cm}^3$$

$$A_L = p \cdot \overline{VM} = 2 \overline{AB} \cdot \overline{VM} = ?!?$$

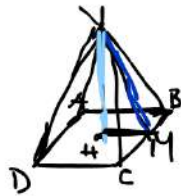
$$a_p = \frac{2A}{2p} = \frac{A}{p}$$

$$\overline{VM} = \sqrt{\overline{VH}^2 + \overline{HM}^2} = \sqrt{(60 \text{ cm})^2 + (35 \text{ cm})^2} = \sqrt{a_p^2 = \frac{A}{p}}$$

$$= \sqrt{3600 \text{ cm}^2 + 1225 \text{ cm}^2} = 4825 \text{ cm}^2$$

$$A_L = p \cdot \overline{VM} = 2 \overline{AB} \cdot \overline{VM} = 140 \text{ cm} \cdot 69,46 \text{ cm} \approx 9724,4 \text{ cm}^2$$

$$A_T = A_B + A_L = 4900 \text{ cm}^2 + 9724,4 \text{ cm}^2 \approx 14624,4 \text{ cm}^2$$



$$\overline{AB} = 20 \text{ cm}$$

$$\overline{VH} = 24 \text{ cm}$$

$$\overline{VM} = ?$$

$$V = ?$$

$$a_p = \frac{2A}{2p}$$

$$\overline{VM} = \sqrt{\overline{VH}^2 + \overline{HM}^2} =$$

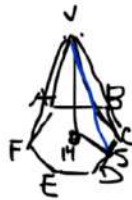
$$= \sqrt{(24 \text{ cm})^2 + (10 \text{ cm})^2} = \sqrt{576 \text{ cm}^2 + 100 \text{ cm}^2}$$

$$= \sqrt{676 \text{ cm}^2} = 26 \text{ cm}$$

$$A_B = \overline{AB}^2 = (20 \text{ cm})^2 = 400 \text{ cm}^2$$

$$V = \frac{1}{3} A_B \cdot \overline{VH} = \frac{1}{3} \cdot 400 \text{ cm}^2 \cdot 24 \text{ cm} = 3200 \text{ cm}^3$$

$$\frac{\sqrt{2}l^2}{24} = \frac{l}{2}$$



$$d = 0,25 \frac{g}{cm^3}$$

$$m = 2700 \text{ g}$$

$$\sqrt{H} = 12 \text{ cm}$$

$$A_B = ?$$

$$A_B = \frac{p \cdot MS}{2} = ? ! ?$$

$$V = \frac{m}{d} = \frac{2700 \text{ g}}{0,25 \frac{g}{cm^3}} = 10800 \text{ cm}^3$$

$$d = \frac{m}{V}$$



$$A_B = \frac{3V}{\sqrt{H}} = \frac{3 \cdot 10800 \text{ cm}^3}{4 \cdot 12 \text{ cm}} = 2700 \text{ cm}^2$$

$$V = \frac{1}{3} A_B \cdot \sqrt{H}$$

$$A_B = \frac{3V}{\sqrt{H}}$$