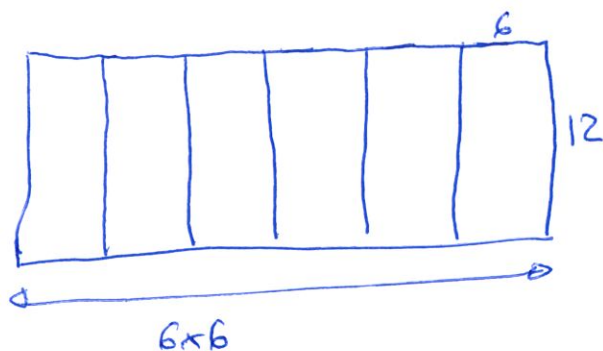


①  $x = ?$     $\Delta_{\text{lat}} = ?$     $\Delta_{\text{total}} = ?$     $V = ?$

a)  $x = ?$    En un hexágono el radio = lado

$$x = \sqrt{6^2 - 3^2} = \sqrt{27} = \underline{\underline{3\sqrt{3} \text{ cm}}}$$

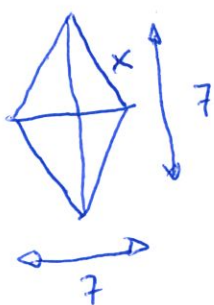
$$\Delta_{\text{lateral}} = 36 \times 12 = \underline{\underline{432 \text{ cm}^2}}$$



$$\Delta_{\text{TOTAL}} = 2\Delta_{\text{base}} + \Delta_{\text{lateral}} = 2 \cdot \frac{36 \cdot 3\sqrt{3}}{2} + 432 = \underline{\underline{619,06 \text{ cm}^2}}$$

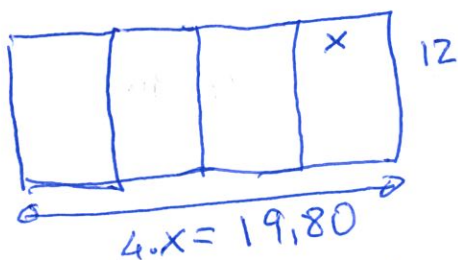
$$V = \Delta_{\text{base}} \cdot h = \frac{36 \cdot 3\sqrt{3}}{2} \cdot 12 = \underline{\underline{4422,37 \text{ cm}^3}}$$

b)



$$x = \sqrt{3,5^2 + 3,5^2} \approx \underline{\underline{4,95 \text{ cm}}}$$

$$\Delta_{\text{lateral}} = 19,8 \times 12 = \underline{\underline{237,6 \text{ cm}^2}}$$

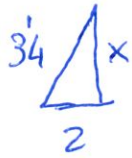
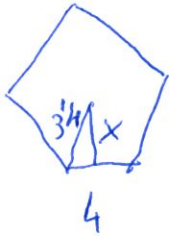


$$\Delta_{\text{TOTAL}} = 2\Delta_{\text{base}} + \Delta_{\text{lateral}} = 2 \frac{D \cdot d}{2} + 237,6$$

$$\Delta_{\text{TOTAL}} = 49 + 237,6 = \underline{\underline{286,6 \text{ cm}^2}}$$

$$V = \Delta_{\text{base}} \cdot h = \frac{D \cdot d}{2} \cdot h = \underline{\underline{294 \text{ cm}^3}}$$

c)



$$x = \sqrt{3,4^2 - 2^2} = \underline{\underline{2,75 \text{ cm}}}$$

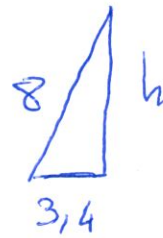
$$\Delta_{\text{lateral}} = 5 \Delta_{\text{triángulo}} = 5 \cdot \frac{4 \cdot 2,75}{2} = \underline{\underline{77,5 \text{ cm}^2}}$$

$$\Delta_{\text{TOTAL}} = \Delta_{\text{base}} + \Delta_{\text{lateral}} = \frac{P \cdot ap^2}{2} + 77,5 = \frac{20 \cdot 2,75^2}{2} + 77,5$$

$$\Delta_{\text{TOTAL}} = \underline{\underline{105 \text{ cm}^2}}$$

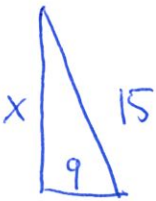
$$V = \frac{\Delta_{\text{base}} \cdot h}{3} = \frac{27,5 \cdot h}{3} = \underline{\underline{66,38 \text{ cm}^3}}$$

Debo calcular h



$$h = \sqrt{8^2 - 3,4^2} = \underline{\underline{7,24 \text{ cm}}}$$

d)

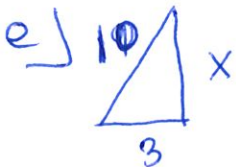


$$x = \sqrt{15^2 - 9^2} = \underline{\underline{12}}$$

$$\Delta_{\text{lateral}} = \pi r g = \pi \cdot 9 \cdot 15 = 135\pi \approx \underline{\underline{424,12 \text{ cm}^2}}$$

$$\Delta_{\text{TOTAL}} = \pi r^2 + \pi r g = \pi \cdot 9^2 + 424,12 \approx \underline{\underline{678,58 \text{ cm}^2}}$$

$$V = \frac{\pi r^2 \cdot h}{3} = \frac{\pi \cdot 9^2 \cdot 12}{3} = 324\pi \approx \underline{\underline{101,88 \text{ cm}^3}}$$



$$x = \sqrt{10^2 - 3^2} = \underline{\underline{9,54 \text{ cm}}}$$

$$\Delta_{\text{lateral}} = b \cdot a = 2\pi r \cdot h = 2 \cdot \pi \cdot 3 \cdot 9,54 = 179,81 \text{ cm}^2$$

$$\Delta_{\text{TOTAL}} = 2\pi r^2 + 179,81 = \underline{\underline{238,36 \text{ cm}^2}}$$

$$V = \pi r^2 \cdot h = \pi \cdot 3^2 \cdot 9,54 = 269,74 \text{ cm}^3$$

$$f) \quad \Delta = 4\pi r^2 : 2 = 4\pi \cdot 4^2 : 2 = 32\pi = \underline{\underline{100,53 \text{ cm}^2}}$$

Media esfera

$$V = \frac{4\pi r^3}{3} : 2 = \frac{4\pi 4^3}{3} : 2 = \underline{\underline{134,04 \text{ cm}^3}}$$