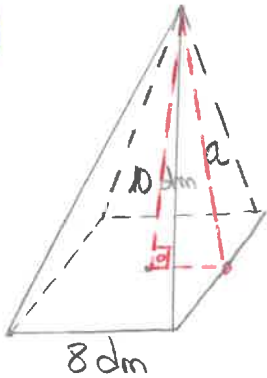


CUERPOS GEOMÉTRICOS

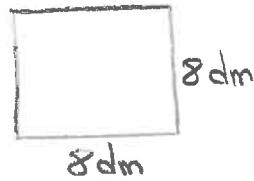
PIRÁMIDES

17.



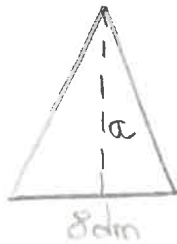
$$A_{TOTAL} = A_{BASE} + 4 \cdot A_{LATERAL}$$

• A_{BASE} :

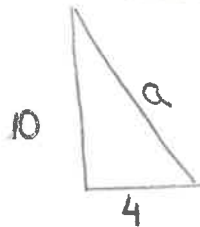


$$A_B = p.l. = 8 \cdot 8 = 64 \text{ dm}^2$$

• $A_{LATERAL}$:



$$A_{LATERAL} = \frac{b \cdot h}{2} = \frac{8 \cdot 10'77}{2} = 43'08 \text{ dm}^2$$



$$a = \sqrt{10^2 + 4^2} = 10'77 \text{ dm}$$

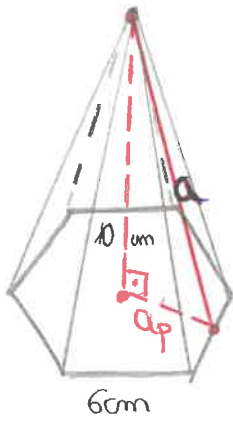
$$\underline{A_{TOTAL} = 64 + 4 \cdot 43'08 = 236'32 \text{ dm}^2}$$

$$V_{TOTAL} = \frac{A_{BASE} \cdot \text{Altura}}{3}$$

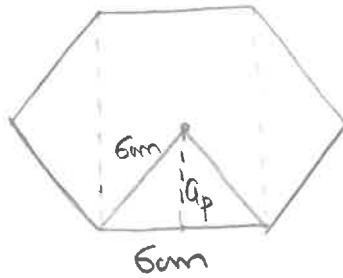
$$V_T = \frac{64 \cdot 10}{3} = 213'33 \Rightarrow \underline{V_T = 213'33 \text{ dm}^3}$$

19. a)

$$A_{TOTAL} = A_{BASE} + 6 \cdot A_{LATERAL}$$



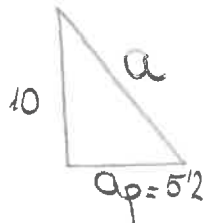
A_{BASE} :



$$a_p = \sqrt{6^2 - 3^2} = 5.2 \text{ cm}$$

$$A_{BASE} = \frac{P \cdot a_p}{2} = \frac{6 \cdot 5.2}{2} = 93.6 \text{ cm}^2$$

$A_{LATERAL}$:



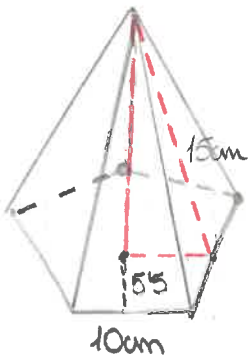
$$a = \sqrt{10^2 + 5.2^2} = 11.24 \text{ cm}$$

$$A_{LATERAL} = \frac{b \cdot a}{2} = \frac{6 \cdot 11.24}{2} = 33.81 \text{ cm}^2$$

$$A_{TOTAL} = 93.6 + 6 \cdot 33.81 \Rightarrow A_T = 296.46 \text{ cm}^2$$

$$V_{TOTAL} = \frac{A_{BASE} \cdot \text{altura}}{3} \Rightarrow V_T = \frac{93.6 \cdot 10}{3} \Rightarrow V_T = 321 \text{ cm}^3$$

c)



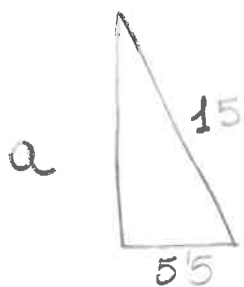
$$A_{TOTAL} = A_{BASE} + 5 \cdot A_{LATERAL}$$

$$A_{BASE} = \frac{P \cdot a_p}{2} = \frac{10 \cdot 5.5}{2} = 137.5 \text{ cm}^2$$

$$A_{LATERAL} = \frac{b \cdot a}{2} = \frac{10 \cdot 15}{2} = 75 \text{ cm}^2$$

$$A_{TOTAL} = 137.5 + 5 \cdot 75 \Rightarrow A_T = 512.5 \text{ cm}^2$$

$$V_{TOTAL} = \frac{A_{BASE} \cdot \text{altura}}{3} \Rightarrow V_T = \frac{137.5 \cdot 15}{3} \Rightarrow V_T = 639.83 \text{ cm}^3$$



$$a = \sqrt{15^2 + 5.5^2} = 13.96$$