

a) Lado del Rombo

$$l^2 = 8^2 + 6^2 = 64 + 36 = 100$$

$$l = \sqrt{100} = 10 \text{ cm.}$$

$$b) \underline{AB} = d + \frac{d}{2} = 12 + 6 = \underline{18 \text{ cm}}$$

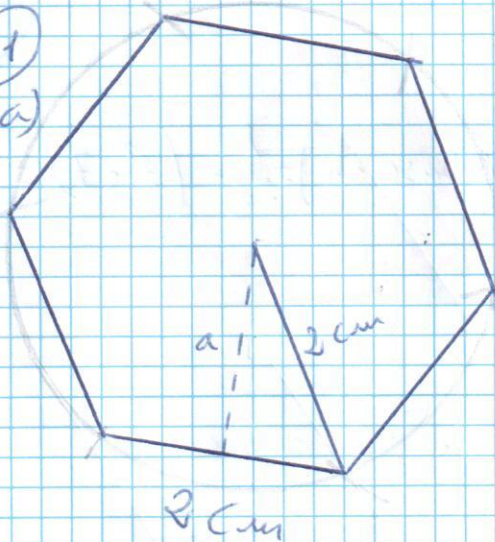
$$AC = D + \frac{D}{2} = 16 + 8 = 24 \text{ cm.}$$

$$BC^2 = AC^2 + AB^2 = 24^2 + 18^2 = 900$$

$$BC = \underline{\underline{\sqrt{900} = 30 \text{ cm}}}$$

(71)

a)



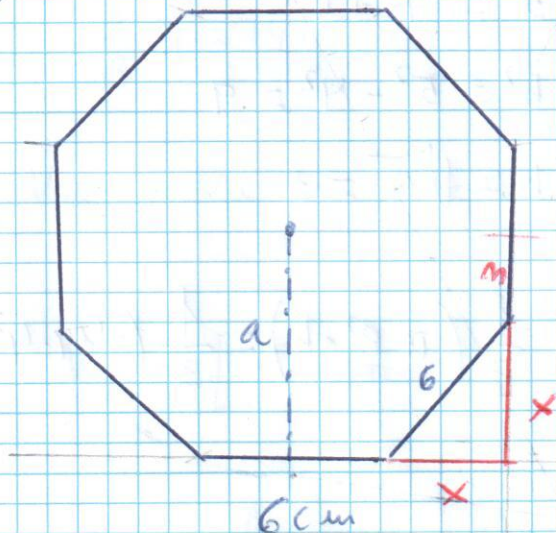
$$2^2 = a^2 + 1^2$$

$$a^2 = 2^2 - 1^2 = 4 - 1 = 3$$

$$a = \sqrt{3}$$

$$A = \frac{P \cdot a}{2} = \frac{2 \cdot 6 \cdot \sqrt{3}}{2} = \underline{\underline{10'39 \text{ cm}^2}}$$

b)



$$P = 48 \text{ cm.}$$

$$l = \frac{48}{8} = 6 \text{ cm}$$

$$6^2 = 2x^2 \quad // \quad x^2 = \frac{6^2}{2} = \frac{36}{2} = 18$$

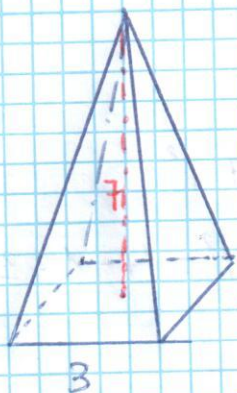
$$x = \sqrt{18} = 4'24 \text{ cm.}$$

$$a = 4'24 + \frac{6}{2} = 7'24$$

$$A = \frac{P \cdot a}{2} = \frac{48 \cdot 7'24}{2} = 173'76 \text{ cm}^2$$

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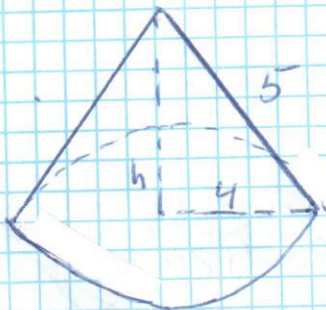
(24) a)



$$V = \frac{1}{3} (A_{\text{base}} \cdot h) = \frac{1}{3} (3^2 \cdot 7) = 21$$

$$\underline{\underline{V = 21 \text{ cm}^3}}$$

b)



Calculamos primero la altura

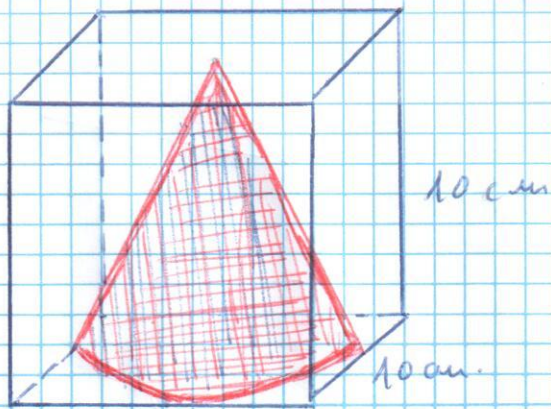
$$5^2 = 4^2 + h^2$$

$$h^2 = 5^2 - 4^2 = 9$$

$$h = \sqrt{9} = 3$$

$$V = \frac{1}{3} (A_{\text{base}} \cdot h) = \frac{1}{3} (\pi R^2 \cdot h) = \frac{1}{3} (3.14 \cdot 4^2 \cdot 3) =$$

$$\underline{\underline{= 50.24 \text{ cm}^3}}$$



$$V_{\text{cubo}} = 10^3 = 1.000 \text{ cm}^3$$

$$V_{\text{cono}} = \frac{1}{3} (A_{\text{base}} \cdot h) = \frac{1}{3} (\pi R^2 \cdot h) =$$

$$= \frac{1}{3} (3,14 \cdot 5^2 \cdot 10) = 261,7 \text{ cm}^3$$

$$V_{\text{cubo}} - V_{\text{cono}} = 1.000 - 261,7 = \underline{\underline{738,3 \text{ cm}^3}}$$

$$(26) \text{ a) } V = \frac{1}{3} [\pi \cdot (R+1)^2 \cdot h] = \frac{1}{3} [\pi \cdot (R^2 + 1^2 + 2R) \cdot h] =$$

$$= \frac{1}{3} \pi \cdot h (R^2 + 1 + 2R) = \frac{1}{3} \pi h R^2 + \frac{1}{3} \pi \cdot h + \frac{1}{3} \pi \cdot h \cdot 2R =$$

$$\frac{1}{3} \pi \cdot R^2 \cdot h + \frac{1}{3} \pi \cdot h (2R + 1)$$

Esto es lo que aumenta el volumen

$$\text{b) } V = \frac{1}{3} \pi R^2 (h+1) = \frac{1}{3} \pi R^2 h + \frac{1}{3} \pi R^2$$

Esto aumenta el volumen