

rm = 5 cm RM= 10 cm

CILINDROS

11 = Abase . hc V1= 48M.h

V1= 715 1/5.40 V1 = 1 100 1/5. 40

V1=7 20.40 V1= 800cm2

V1= V2

V2 = Abase. h

V2= Nrm2h

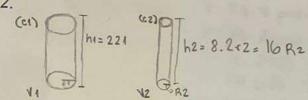
8001 = 152 h

8001 = 52. h

800 = 25h

n = 800/25 → 3 20m

B: A



$$\frac{V1}{V2} = \frac{1}{27} \Rightarrow \frac{27.(R1)^2.h1}{27.(R2)^2.h^2} = \frac{1}{27} \Rightarrow \frac{(R1)^2.2R1}{(R2)^2.16R2} = \frac{1}{27} \Rightarrow \frac{(R1)^2.R1.\frac{1}{2}}{(R2)^2.R2.\frac{8}{16}} = \frac{1}{27} \Rightarrow \frac{(R1)^3.\frac{1}{27}}{(R2)^3.\frac{1}{27}} \Rightarrow \frac{1}{27} \Rightarrow \frac{1}{27}$$

$$\frac{\left(R1\right)^{3}}{\left(R2\right)^{3}} = \frac{8}{27} \rightarrow \left(\frac{R1}{R2}\right)^{3} = \frac{8}{27} \rightarrow \frac{R1}{R2} = \sqrt[3]{\frac{2}{27}} \rightarrow \frac{R1}{R2} = \sqrt[3]{\frac{2^{8}}{3^{2}}} \rightarrow \frac{R1}{R2} = \frac{2}{3} \quad R:A$$

3. V1= 1611

C1 | C2 | C2 Alateral = C1 Alateral

V2 | h=?

C2 Alateral = C1 Atotal

27 R.h = 27 (R+H) 27 32R.h=274(R+h)

3h = 27/8 (R+h)

ATR 3h= 2(A+h) -> 3h= 2r+2h

3h-2h=2+ -> h=2+-

NA = 167 > The 2. h = 1611 -> R2. h = 167/78-> R2. h = 16 R2.h=16 -> R2. 2R=16 -> R2. R=16/2 -> R3=8

R= V8 -> R= V25 -> R= 2

h=2R h=2.2

R.D

$$7.8^{2}h=7.8^{2}h$$

 $1.8^{2}h=7.8^{2}h$
 $1.8^{2}h$
 1

$$R^{2}-8R-48=0$$

$$\Delta = (-8)^{2}.4.1.-48$$

$$\Delta = 64+192$$

$$\Delta = \sqrt{256} \qquad R = 8\pm 16/2.1$$

$$\Delta = 16 \longrightarrow R_{1} = 8+16/2 \rightarrow 12 \text{ cm} \qquad R:A$$

$$R_{11} = 8-16/2 \rightarrow -4$$

PIRÂMIDES

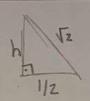
A total = Abase + Alateral

A =
$$h^2 + a^2$$

40 $A^2 = 30^2 + 40^2$
 $A^2 = 900 + 1600$
 $A^2 = \sqrt{2500}$
 $A = 50mm$

Abase =
$$l^2 = 30^2 = 6400 \text{mm}^2$$

Alateral = $40 \rightarrow \frac{4.1.4}{2}$
 $\frac{80.50}{2} = 2.80.50 = 8000 \text{mm}^2$



$$(\sqrt{2})^2 = h^2 + 1^2$$

 $2 = h^2 + 1$
 $h^2 = 1 \rightarrow h = \sqrt{1} \rightarrow 1$

Abase =
$$\frac{3l^2\sqrt{3}}{2}$$
 $\Rightarrow \frac{3a^2\sqrt{3}}{2}$

$$V=1/3$$
. $1/prisma \rightarrow V=1/3$. Abase. h
 $V=1/3$. $3.a^2 \sqrt{3}/2$. $6\sqrt{3} \rightarrow V=3a^2 \sqrt{3}$. $\sqrt{3}.b/3$. 2
 $V=3a^2.3b/3$. $2 \rightarrow V=3a^2.b/2$ cm³

$$6\sqrt{3} = \ell^2\sqrt{3} \rightarrow \frac{6\sqrt{3}}{\sqrt{3}} = \ell^2$$

$$\ell^2 = 6 \rightarrow \ell = \sqrt{6}$$

$$h = \ell$$