872 - Observe o Isquema:

- Para o Pento extremal:

$$\frac{d(V(R))}{dR} = 0$$

-Legei

$$\frac{1}{3} \prod_{n=1}^{\infty} h \left[3R^{\alpha} (R-\pi) - R^{3} \right] \cdot \frac{1}{(R-\pi)^{\alpha}} = 0 \implies R^{\alpha} (3R - 3\pi - R) = 0 \implies R = \frac{3}{2} \pi$$

873 - Observe a figure;

N-R B

O

R

R

R

R

R

- Relacionando os triángulos:

$$\sqrt{(h-R)^2-R^2} \qquad \frac{\pi}{h} = \frac{R}{\sqrt{(h-R)^2-R^2}}$$

$$\Rightarrow \pi^{2} = h^{2} \cdot \left[\frac{R^{2}}{h^{2} - 2hR} \right]$$

- Para o volume do cone:

$$V(\pi,h) = \frac{1}{3} \text{ if } h \cdot \pi^2$$

$$\Rightarrow V(h) = \frac{1}{3} \gamma \cdot R^2 \cdot \left[\frac{h^3}{h^2 - 2hR} \right]$$

- Para o ponto extremal:

- Lege:

$$\frac{1}{3} \text{ if } R^{2} \left[3h^{2} (h^{2} - 2hR) - h^{3} (2h - 2R) \right] \frac{1}{(h^{2} - 2hR)^{2}} = 0 \Rightarrow h^{2} (3h^{2} - 6hR - 2h^{2} + 2hR) = 0$$

=> h3(h-4R)=0 => h=4R

Rusdrael Antony de Arraige Frieze,

-Temos a relação entre os triângulos:

 $*\frac{H}{h} = \frac{R}{R-n}$ $*\frac{H}{U-h} = \frac{R}{R}$ $H = h \cdot R$ R-n

- Seja + volume de cont:

 $V(R,H) = \frac{1}{3} \prod HR^2 \Rightarrow V(R) = \frac{1}{3} \prod \frac{R^3}{\Lambda} \cdot \Lambda$