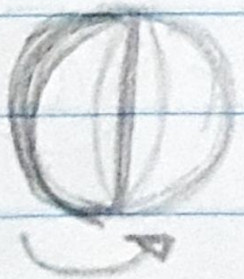
Tarefa Básica

1-)  (C)

2-)

$r = 1$

$V = \frac{4\pi}{3}$

$r = ? = 100$ //

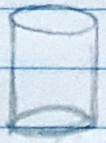
$V = \frac{4}{3} \cdot \pi \cdot 1000000$

$\sqrt[3]{1000000}$

100

3-)

$\frac{\frac{4\pi R^3}{3}}{\pi(2R)^2 \cdot 4R} = \frac{4\pi R^3}{3\pi 4R^2 \cdot 4R} = \frac{4R^3}{48R^3}$



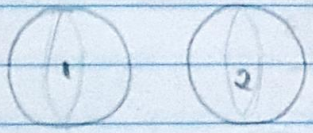
$\rightarrow \frac{1}{12}$ //

(E)

$d = h$

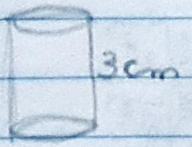
$h = 4R$

4-)



$r = 1cm$ $r = 2cm$

$V_1 = \frac{4\pi}{3}$ $V_2 = \frac{32\pi}{3}$



(B)

$12\pi = \pi r^2 \cdot 3$

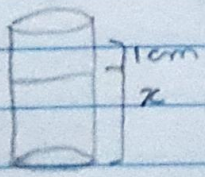
$r^2 = 4$

$r = 2cm$

$V_T = \frac{4\pi}{3} + \frac{32\pi}{3}$

$V_T = 12\pi$

5-)



$r = 6cm$

$36 = \frac{4}{3}\pi r^3$

$27 = \pi r^3$

$r = 3cm$

(C)

$V = \pi r^2 \cdot 2$

$V = \pi 72$

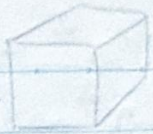
$V = \pi r^2 3$

$V = \pi 108$

aumentou 36.

6-)

$V = 288\pi\ cm^3$



$x = d$

$d = 2r$

$d = 12\ cm$

$\frac{4}{3}\pi r^3 = 288\pi$

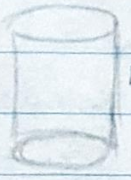
$864 = 4r^3$

$216 = r^3$

$r = 6$

(E)

7-)



$d = 20\ cm$

$2\ cm = r$

$V = \frac{4}{3}\pi r^3$

$V = \frac{32}{3}\pi$

(D)

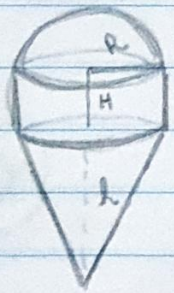
$V = \pi r^2 . h$

$V = \pi\ 100 . 16$

$V = 1600\pi\ cm^3$

$\frac{1600\pi}{\frac{32\pi}{3}} = \frac{4800\pi}{32\pi} = 150$ doces

8-)



$2R = h = 3H$

$\frac{4}{6}\pi R^3 = \pi R^2 H = \frac{1}{3}\pi R^2 h$

$2R = 3H$

$\pi R^2 H = \frac{1}{3}\pi R^2 h$

$h = 3H$

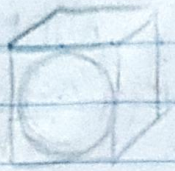
(D)

1-)

$A_0 = 100\pi\ m^2 = 4\pi r^2 \rightarrow r = 5\ m$

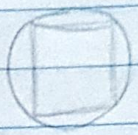
$h = ?$

$g = \sqrt{30}\ m$

2-) 

$\frac{4\pi r^2}{6.4r^2} = \frac{\pi}{6}$ (A)

3-) $\frac{\frac{4\pi R^3}{3}}{\left(\frac{2R\sqrt{3}}{3}\right)^3} \rightarrow \frac{\frac{4\pi R^3}{3}}{\frac{8R^3 3\sqrt{3}}{27}}$



diagonal $= l\sqrt{3}$

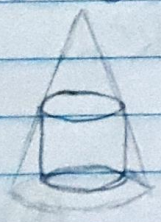
$2R = l\sqrt{3}$

$l = \frac{2R}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2R\sqrt{3}}{3}$

$\frac{\frac{4\pi R^3}{3}}{\frac{8R^3\sqrt{3}}{9}} \rightarrow \frac{36\pi R^3}{24R^3\sqrt{3}} \rightarrow \frac{3\pi}{2\sqrt{3}}$

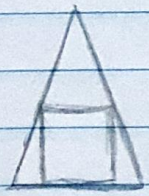
(B)

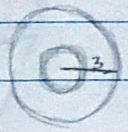
$\frac{3\pi}{2\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} \rightarrow \frac{\pi\sqrt{3}}{2}$

4-) 

$V_\Delta = \frac{1}{3}\pi 3^2 \cdot 12$

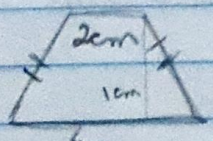
$V_\Delta = 36\pi\ m^3$





$l = d$

$l = 2r$

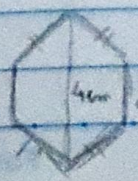
5-) 

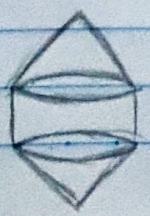
$V_\Delta = \frac{1}{3}\pi r^2 l$

$V_\Delta = \frac{1}{3}\pi$

$V_C = \pi r^2 . l$

$V_C = 2\pi$





$V_T = 2\pi + 2.\frac{1}{3}\pi$

$V_T = \frac{8}{3}\pi\ cm^3$