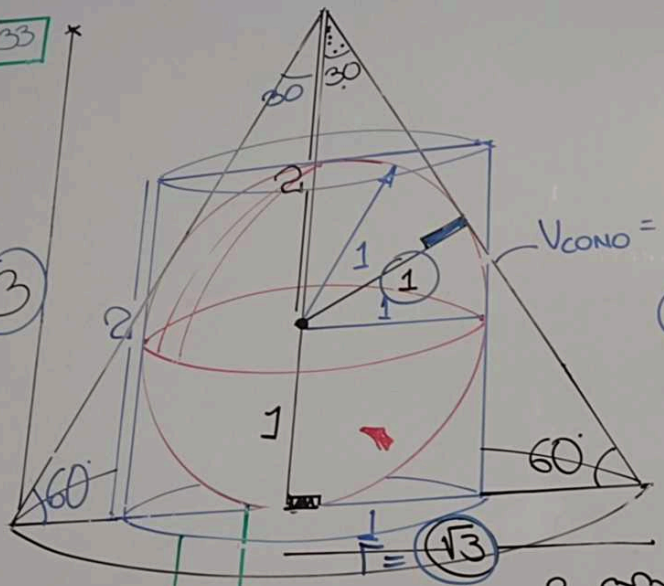
33



$V_{CONO} = \frac{\pi \sqrt{3}^2}{3}$

(3π)

(3)

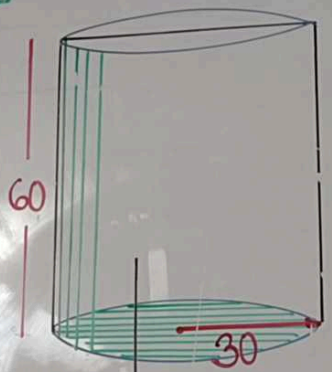
$V_{esf} = \frac{4}{3}\pi(1)^3 = \frac{4}{3}\pi$

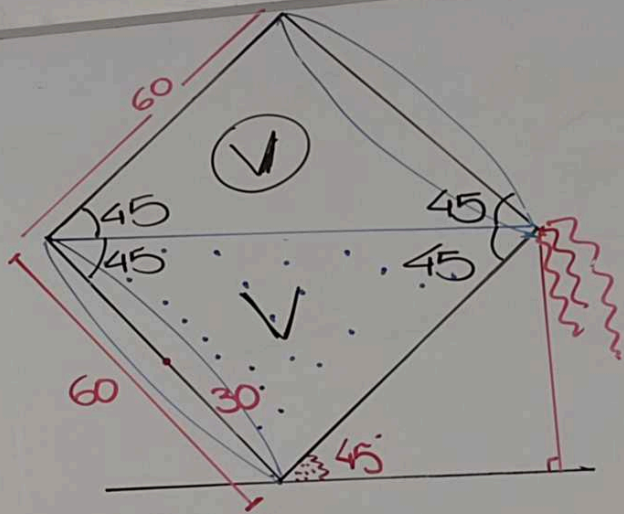
$V_{cil} = \pi 1^2 \cdot 2$

(2π)

$5\pi + \frac{4\pi}{3} = \frac{19\pi}{3}$

34

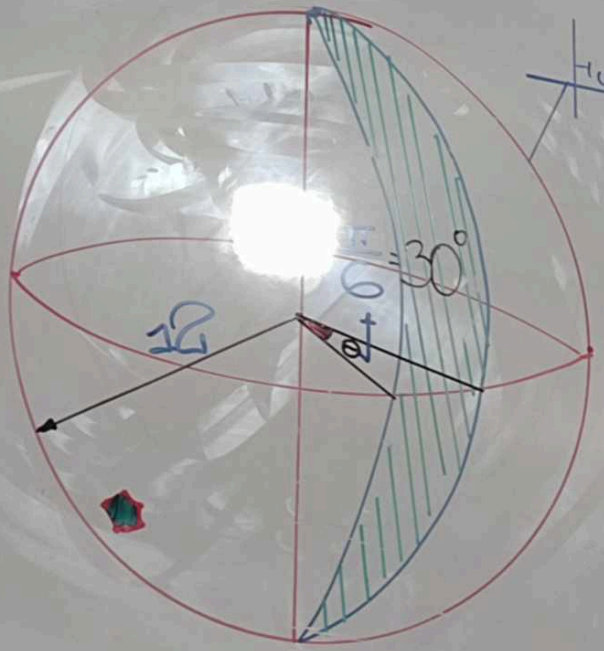




$2V = \pi 30^2 \times 60$

$V = 27000\pi$

31



HUSO ESFÉRICO.

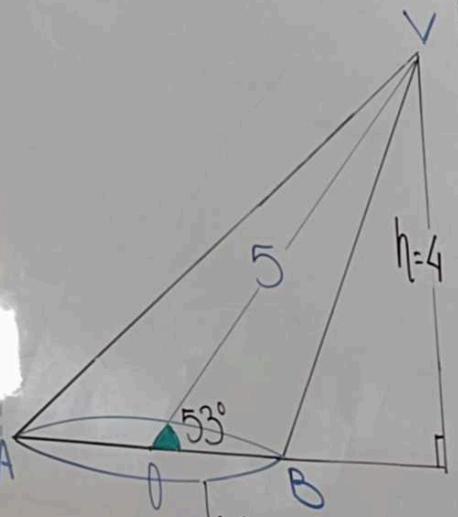
$$A = \frac{\pi R^2 \theta}{90^\circ}$$

$$\frac{\pi \, 12^2 \cdot 30}{90}$$

$$\frac{\pi (12)(12) 4}{3}$$

48π

30

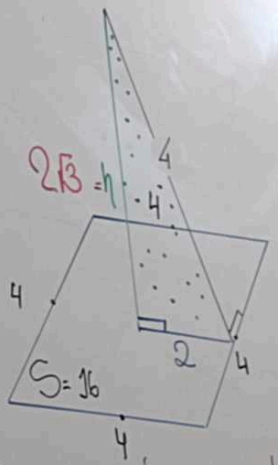


$A_{BASO} = 15$

$$V = \frac{A_{BASO} \times h}{3} = \frac{15(4)}{3}$$

20

29



$AS_T = 48$

$AS_L + S = 48$

$32 + S = 48$

$S = 16$

$AS_L = 32$

$8Ap = 32$

$Ap = 4$

$$V = \frac{S \times h}{3}$$

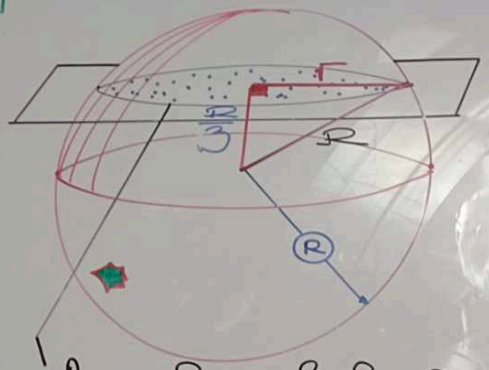
$$V = \frac{16 \cdot 2\sqrt{3}}{3}$$

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

12 SEMANA

27

27



$A = \pi r^2$

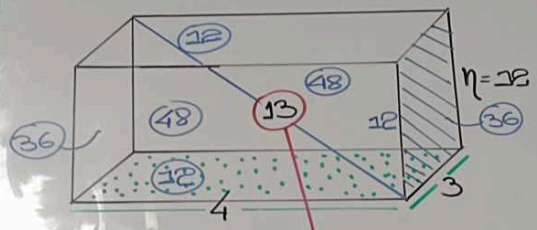
$\frac{8R^2\pi}{9}$

$R^2 = \frac{R^2}{9} + r^2$

$9R^2 = R^2 + 9r^2$

$\frac{8R^2}{9} = r^2$

28



$AS_T : 2(12+48+36)$

$AS_T = 192$

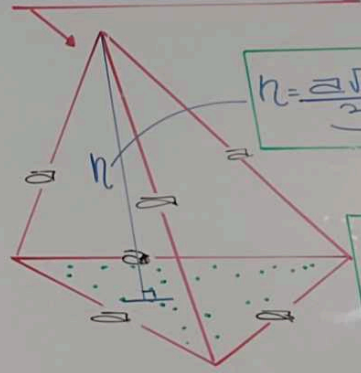
$D^2 = L^2 + a^2 + h^2$

$13^2 = 4^2 + 3^2 + h^2$

$144 = h^2$

$h = 12$

TETRAEDRO REGULAR

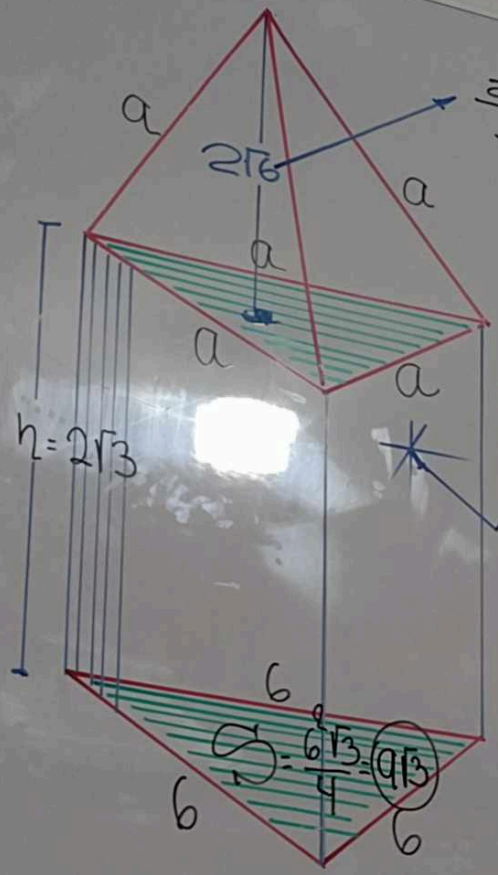


$h = \frac{a\sqrt{6}}{3}$

$AS_T : a^2\sqrt{3}$

$V = \frac{a^3\sqrt{2}}{12}$

27



$\frac{a^2\sqrt{6}}{3} = 2\sqrt{6}$

$a = 6$

Prisma.

$\therefore AS_L = AS_T$.

PRISMA TETRAO.

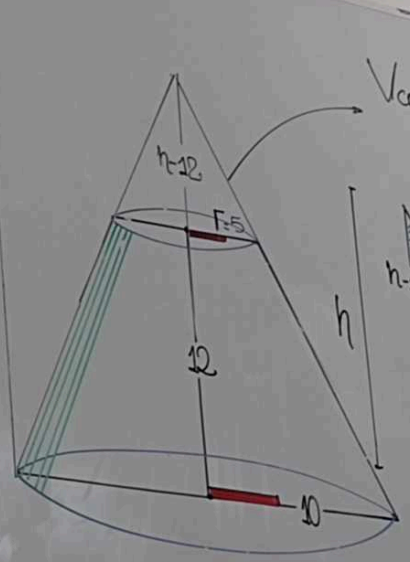
$18.h = 36\sqrt{3}$

$h = 2\sqrt{3}$

$S = \frac{6^2\sqrt{3}}{4} = 9\sqrt{3}$

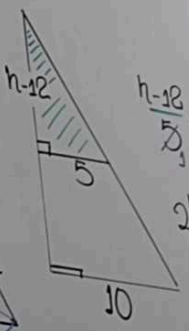
$V = S \times h = 9\sqrt{3} \cdot 2\sqrt{3} = 54$

26



$V_{cono} = \frac{\pi r^2 h}{3} = \frac{\pi 10^2 h}{3} = \frac{\pi 100(24)}{3}$

2400π



$\frac{h-12}{5} = \frac{h}{10}$

$2h - 24 = h$

$h = 24$

$V = 700\pi$

$\frac{\pi h}{3}\left[R^2 + r^2 + Rr\right] = 700\pi$

$100 + r^2 + 10r = 175$

$r(r+10) = 75$

$r = 5$