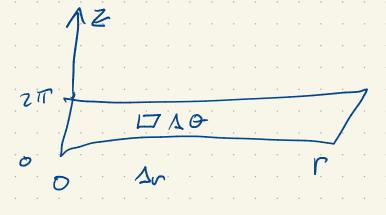
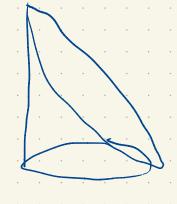
Cylindrical coord



$$x = r\cos\theta \qquad r = \int x^2 + y^2$$

$$y = r\sin\theta$$

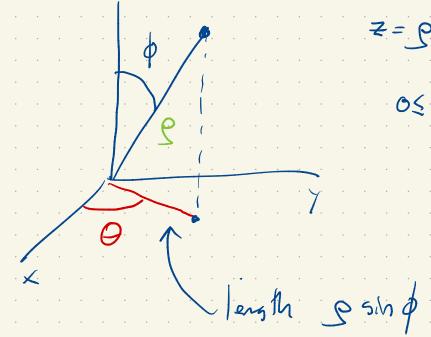
$$x^{2}+y^{2}=16$$
 $z=0$
 $z=4-y$



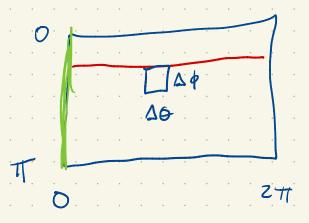
02 m / 4 p 4-vigno o v dz voludo

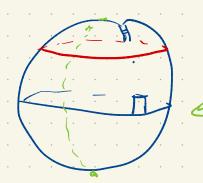
$$2T \int_{0}^{4} r \left(4 - r \sin \theta\right) r dr = \frac{512\pi}{3}$$

Slaheros



X= gsind cost y= psind sin 6





ont

 $\sin(4+2\phi)\Delta\theta \approx \sin(\phi)\Delta\theta$ $\Delta\phi$ $\sin\phi\Delta\theta$



Area sin & D & D &

For a spee of radius R:

Rsinple, RDA



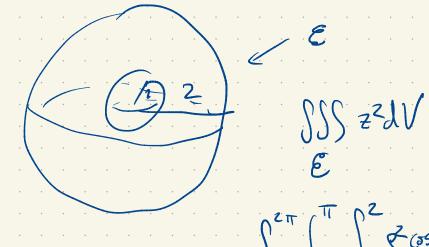
dV = g2shp dpdods



$$Z = S h \phi$$

$$X = P (05 \phi) (05 \theta)$$

$$Y = P 806 \phi 5 h \theta$$



$$2\pi \left(\frac{2^{5}-1}{5}\right) \int_{0}^{\pi} \cos^{2}\phi \sin d\phi \quad u = \cos \phi$$