$$\begin{cases} x = \pi \cos \theta \\ y = \pi \sin \theta \end{cases}$$

$$x^{2} + y^{2} = y \implies x^{2} = y \implies x = 2$$
  
 $x^{2} + y^{2} = 2x \implies x^{2} = 2\pi \cos \theta \implies x = 2\cos \theta$   
 $\theta \in [0, \frac{\pi}{2}]$ 

$$=\int_{0}^{\pi/2}\int_{0}^{\pi/2}\cos\theta \,d\pi\,d\theta =\int_{0}^{\pi/2}\int_{0}^{\pi/2}\cos\theta \,d\pi\,d\theta =\int_{0}^{\pi/2}\int_{0}^{\pi/2}\int_{0}^{\pi/2}\cos\theta \,d\pi\,d\theta =\int_{0}^{\pi/2}\int_{0}^{\pi/2}\int_{0}^{\pi/2}\cos\theta \,d\pi\,d\theta =\int_{0}^{\pi/2}\int_{0}^{\pi$$

$$=\frac{8}{3} \left( (\cos \theta - \cos \theta) \right) d\theta$$

$$=\frac{1}{3}\left[\operatorname{nen}\theta-\frac{3\theta}{8}-\frac{\operatorname{nen}\theta}{32}-\frac{\operatorname{nen}\theta}{9}\right]^{\frac{1}{2}}=$$

$$=\frac{8}{3}\left[\operatorname{sen}\frac{1}{2}-\frac{3}{9}\cdot\frac{1}{2}-\operatorname{sen}\frac{1}{1}\right]=$$

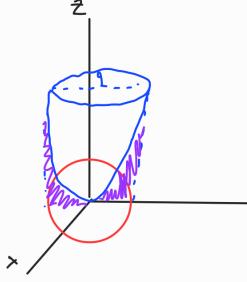
$$=\frac{8}{3}\left[1-\frac{3\pi}{16}\right]=\frac{7}{3}-\frac{\pi}{2}$$

$$\left(\omega^{2} \theta\right)^{2} = \left(\frac{1 + \omega 2\theta}{2}\right)^{2} = \frac{\omega^{2} 2\theta + 2 \omega 2\theta + 1}{4}$$

$$\int \frac{1+\omega^{4\theta}+2\omega^{2\theta}+1}{2} d\theta =$$

$$= \int \left( \frac{3}{8} + \frac{\cos 4\theta}{4} + \frac{\cos 2\theta}{9} \right) d\theta =$$

$$=\frac{30}{8}+\frac{\text{nen }40}{32}+\frac{\text{nen }20}{4}$$



$$x^2 + y^2 = 9 = 2$$

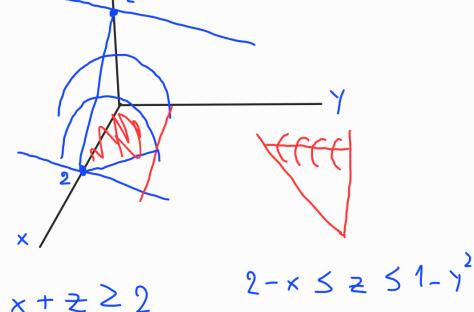
$$\begin{cases} x = n \cos \theta \\ y = n \sin \theta \end{cases}$$

$$y = \begin{cases} 0 \leq u \leq 3, & 0 \leq \theta \leq \delta \text{L} \end{cases}$$

$$V = \int_{0}^{2\pi} \int_{0}^{3} dn d\theta = \int_{0}^{2\pi} \int_{0}^{3} dn d\theta =$$

$$= \int_{0}^{2\pi} \left[ \frac{y}{4} \right]_{0}^{3} d\theta = \int_{0}^{2\pi} \frac{y}{4} d\theta = \left[ \frac{y}{4} \theta \right]_{0}^{2\pi} = \frac{y}{2}$$

$$\begin{array}{c}
3 \\
2 = 1 - y^2 \\
x + z = 2 \\
x = 2 \\
2 \ge 0
\end{array}$$



$$\begin{cases} \frac{1}{2} & \frac{$$

$$2 \int_{1}^{2} \int_{0}^{\sqrt{x-1}} (1-y^{2}-2+x) dy dx = 2 \int_{1}^{2} \int_{0}^{\sqrt{x-1}} (x-y^{2}-1) dy dx = ...$$