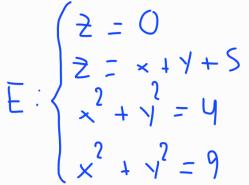
$$Y = x^{2} + 2^{2}$$

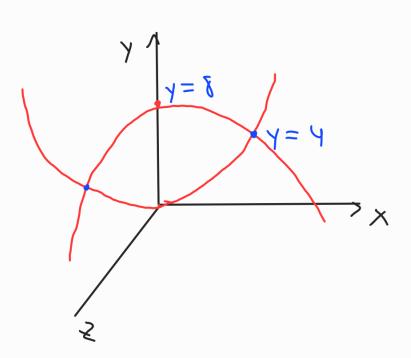
 $Y = 8 - x^{2} - 2^{2}$

$$\theta \in [0, 27]$$

$$n \in [0, 2]$$

$$V = \int_{2}^{2} \int_{2}^{2} \int_{2}^{2}$$

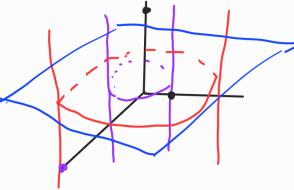




$$n^2 \leq \gamma \leq 8 - n^2$$

$$V = \int_{0}^{2\pi} \int_{0}^{2} \int_{0}^{8-n^{2}} dy dn d\theta = \int_{0}^{2\pi} \int_{0}^{8-n^{2}} n dy dn =$$

$$= 2\pi \int_{-\pi}^{2} n(8-2\pi^{2}) dm = 2\pi \left[4\pi^{2} - \frac{4}{2} \right]_{0}^{2} = 16\pi.$$



$$0 \le 2 \le x + y + 5$$

 $\begin{cases} x = 7 \cos \theta & n \in [2,3] \\ y = n \cos \theta & 0 \in [0,27] \end{cases}$

$$\iiint_{E} \times dV = \iiint_{Q} \int_{Q} \int_{$$

$$=\int_{0}^{\pi}\int_{2}^{3}\cos\theta\left(\pi\cos\theta+\pi\sin\theta+s\right)d\pi d\theta=$$

$$= \int_{0}^{2\pi} \int_{2}^{3} (n^{3} \cos^{2}\theta + n^{3} \operatorname{nen}\theta \cos\theta + \operatorname{Sn}^{2} \cos\theta) dn d\theta =$$

$$= \int_{3\pi} \left[\frac{1}{4} \cos^2 \theta + \frac{1}{4} \sin \theta \cos \theta + \frac{3}{2\pi^3} \cos \theta \right]_{3}^{3} d\theta =$$

$$= \int_{0}^{2\pi} \left(\frac{65}{4} \left(\cos^{2}\theta + \sin\theta \cos\theta \right) + \frac{95}{3} \cos\theta \right) d\theta =$$

$$= \frac{65}{4} \int_{0}^{2\pi} \left(\frac{1 + \cos 2\theta}{2} \right) d\theta + \frac{65}{4} \int_{0}^{2\pi} \frac{2\theta}{2} d\theta =$$

$$=\frac{65}{9}\left[\frac{9}{2}+\frac{20}{9}\right]^{2}+\frac{65}{9}\left[-\frac{20}{9}\right]^{2}=$$

(22)

$$x^{7} + y^{7} = 1$$

 $x^{2} + y^{7} + z^{2} = 4$
 $x^{1} + z^{2} = 4$
 $z^{2} = 4 - x^{2}$

$$\begin{aligned}
& \times = \pi \omega_{0}\theta, & \theta \in [0, 2\pi] \\
& + \gamma^{2} = 1 \\
& + \gamma^{2} + 2^{2} = 4 \\
& - \sqrt{4 - n^{2}} \leq 2 \leq \sqrt{4 - n^{2}} \\
& + 2^{2} = 4 - n^{2}
\end{aligned}$$

$$V = \int_{0}^{2\pi} \int_{0}^{1} \int_{-\sqrt{4-n^2}}^{\sqrt{4-n^2}} dn d\theta = \int_{0}^{2\pi} \int_{0}^{1} \int_{-\sqrt{4-n^2}}^{2\pi} dn d\theta = \int_{0}^{2\pi} \int_{0}^{1} dn d\theta = \int_{0}^{2\pi} \int_{0}^{2\pi} dn d\theta = \int_{0}^$$

$$= \int_{0}^{2\pi} \int_{0}^{1} \sqrt{4-m} \, dm \, d\theta = 2\pi \left[-\frac{2}{3} (4-m)^{3/2} \right]_{0}^{1} =$$

$$=-\frac{47}{3}(353-8)=\frac{3217}{3}-457=471(\frac{8}{3}-\frac{1}{3}).$$

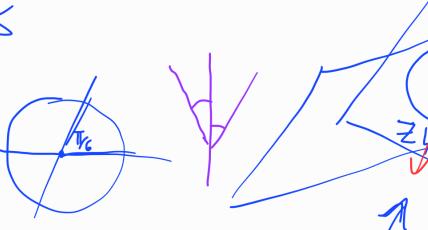
$$E : \begin{cases} e = 2 & 2 \leq e \leq 4 \\ e = 4 & 0 \leq \phi \leq \pi/3 \\ \psi = \pi/3 & 0 \leq \theta \leq 2\pi \end{cases}$$



$$=\int_{0}^{\sqrt{3}}\int_{2}^{2\pi}\int_{2}^{4}e^{S}\sin^{3}\varphi \exp{\varphi} + \exp{\varphi} \cos{\theta} d\varphi d\theta d\varphi =$$

$$= \int_{0}^{\pi/3} \sin^3 \varphi \cos \varphi \, d\varphi \int_{0}^{2\pi} \frac{1}{2} d\theta \int_{2}^{4} e^{5} d\rho = 0.$$

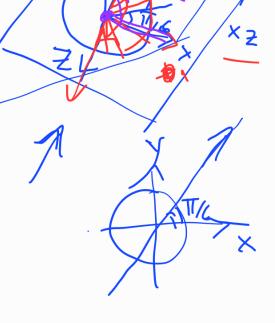
$$0 = (0,0,0)$$
 $0 \le 0$



$$P \in [0, a]$$

$$\theta \in [0, T]$$

$$\Psi \in [0, T]$$



$$V = \int_{0}^{T_{c}} \int_{0}^{T} \int_{0}^{\alpha} e^{2} \operatorname{sen} \varphi \, d\varphi \, d\varphi \, d\varphi =$$