2. × 2+ = 7 4. III Z D U b. g(x,y, z) = x2+y? ege horistantales Y2+42= Y2. x eje vertical. 77/X/m X=3. X=0 tapa inferior. 0 < x < 3. y=rsint. Z=r(os o. のとメとろ、のといきる、のとのきなって. $\iiint_{E} Z dV = \int_{0}^{\pi/2} \int_{0}^{3} r \cos \theta r dx dr d\theta.$ f(z,y,X) - f(rcoso,rsino,X:)

, entile 7=0, Z=3., X=0 $2. X^2 + y^2 = 9$ en el ler octante. 2 +> x USZE3., OSXE3, OSYSV9-X2 7 5-3 $Masa = \iiint_{E} x dV = \int_{0}^{3} \int_{1}^{3} \sqrt{q-x^{2}} x dy dx dz.$ V= SSOV () JZ) Jo X Jy JX 3. $\int_{0}^{3} \chi \sqrt{9-\chi^{2}} dX.$ 1 < 7 < 3 , 0 < r < 3 05057/2. 2 b) m = III (= 2+y 2) dV X=rcoso gersin A. $m = \int_{0}^{3} \int_{0}^{3} \int_{0}^{\pi/2} \left(z^{2} + r^{2} \sin^{2}\theta \right) r d\theta dr dz.$ $m = \int_0^3 \int_0^3 \int \sqrt{9-\chi^2} \left(z^2 + y^2 \right) dy dx dz.$ X=X m= III (x2+y2) dV. y=rsino. 2=r(050.

3. 52 5 Ju-x2 5 N16- x2-y2 VX2+y6 dZdyJX. 05x5z, 05 y 5+V4-x0 0535N16-7.2-y2 Memisferio superior de radio 9 = 4. X2+92+22=16. 26 8 6 4 G=11/2. 4 -1 6=11/2. 0 ٤ 8 ٤ 17/2. $\pi. \qquad \frac{\partial = 0}{\partial x} \qquad \frac{\partial \leq \varphi \leq \pi/z}{\partial x^2 + y^2 = x^2 = y^2 \sin^2 \varphi}.$ JJJ 1/2+42 dV. = Joseph John 6. 82 sin 6 18 90 90. = \int_0 \delta b, Esté nicas. No hay dryulo Q. a. Cilindricas (r, 0, 2) Z=116-X2-42 0 6 Z 6 N16-X2-42 Z=V16- r2cos20-r2sin60 3 { Z { N l6-r2 Z = V16- rz y. ~ OSOE 111, OSTE2. $\frac{1}{\sqrt{12}} = \frac{1}{\sqrt{12}} \times \frac{1}{\sqrt{12}} \times$

 $2\pi \int_{0}^{\pi} \sin \varphi \int_{0}^{3} g d \rho$

3. 3-N9-X2-y2 EZE 3+N9-X2-y2 うくなくてな. Z-3 = ± √9-x2-y2 $(z-3)^2 = 9-x^2-y^2$ Z2-67+9=9-x2-y2 $z^2 + x^2 + y^2 = 67$. g2 = 6 jcos 4 an 1 = 6 cos q x 6 cos 4 ionin

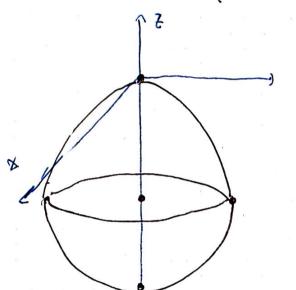
9 = 9 esfera de rodio3 centrada en Co1010). x2+ y2+ z2 = p?

X = psin pcosa. y= gsing sino. 7= 96056.

3 & g & 6 co 5 Q. 0 5 0 5 ZT. 0595 11/2 encinadel planoxy. sobre el hemisferio norte.

III (x2+ y2+ z2)3/2 dV. Sing sply da. 275 Jolas Galos Gesiny of Ju.

centrala en (0,0,-3)



plano xy (Sólo en el hemisferio sur).

五三人人又不.

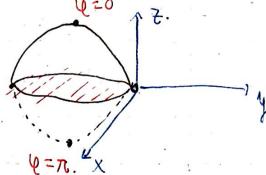
$$-\sqrt{9-(X+3)^2-y^2} \le 7 \le \sqrt{9-(X+3)^2+y^2}$$

$$= 2 = 2 \le 6 \cos \theta.$$

$$0 \le 9 \le 6 \cos \theta.$$

Centrada en (-3,0,0).

Plano xy.



 $\frac{1}{2} \leq 0 \leq \frac{3\pi}{2}$ $0 \leq 0 \leq \pi$ π