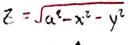
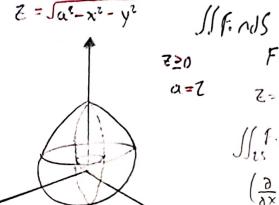
Jourser Andreis Myn, es Solotzono Examen Final 202 1000 51

Materiatica Internedua 2



1 Ej. 7



F= x30+y3; +29K

Z= Ja1-11-11 -1 Z= a2-x1-y2-1 x21 y2+21= a = (m) es feca con

$$\iint_{\mathcal{L}_{s}} f \cdot n ds = \iiint_{s} (\nabla_{0} f) dv; \quad \nabla \cdot F = \partial_{1} V(f)$$

$$\left(\frac{\partial}{\partial x} | \frac{\partial}{\partial y}, \frac{\partial}{\partial z}\right) = (x^{3}, y^{3}, z^{3}) = \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z^{3}} + \frac{\partial}{\partial z^{3}}\right)$$

3x2+3y2+3z2= 3(x2+y2+27)

3 S.S. (x2+y42?) dV; -> courderadas esfersions

Se observa que 02 04 Et (Medua estreta)

dv= p2 Seryapaydo= -x

3 SSS proser poplydy day Aplucado los litarides

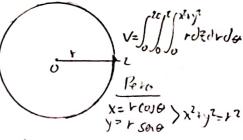
$$-\frac{46}{5}\int_{0}^{12} d\theta = \frac{46}{5}\theta \bigg]_{0}^{92} = \frac{46}{5}(9x) = 720.64\mu$$

SFAJS = 120.64

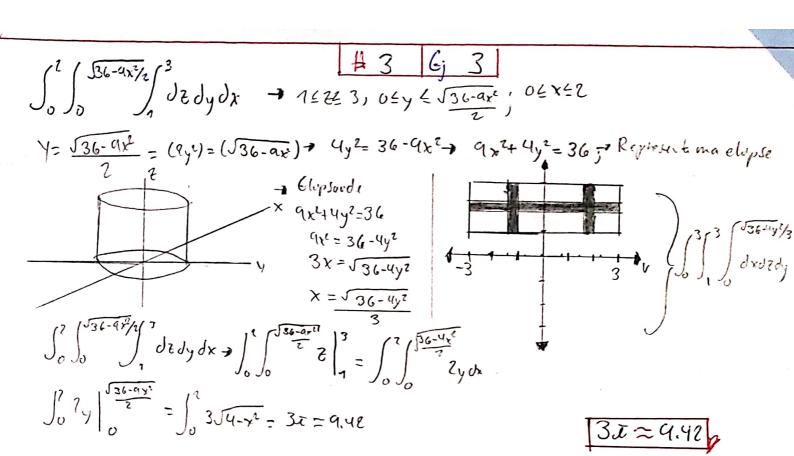
a=2 Parabola => 2= x2+y2 ; (uland-1 x2+y2=a2 # 2 6j. 2

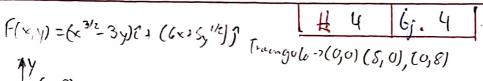
Plano xy- Volumen

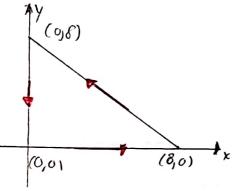
Trobasecuri entre antestados 0626 XIII x2+y2=2) 2=4(Tope); 0 4 + 2 2



Volume 8x = 2513







Transhorizmlal; y=0; $\forall x \in \mathbb{R}^{3/2}$ y=0 d(6) = 26,00 d'(6) = (6,00) d'(6) = (1,00) d'(6) = (6,00) d'(6) = (1,00)

Wz=) Dock. verducul

Renducte -> m= $\frac{8-0}{0-8} = \frac{8}{-8} = -1 - 2y=0 = -1(x-8) - 2y = -x + 8 - 2y = 8-x ; Si x=6 - 2y=8+t$

$$\int_{8}^{0} (t^{3h} - 2ut^{3} - 66.5(8.6)^{1/2}) dt = \int_{8}^{0} (t^{3h} - 3t \cdot 2u - 5(6.6)^{1/2}) dt =$$

$$\int_{8}^{0} (t^{3h} - 2ut^{3} - 66.5(8.6)^{1/2}) dt = \int_{8}^{0} (t^{3h} - 3t \cdot 2u - 5(6.6)^{1/2}) dt =$$

$$\int_{8}^{0} (t^{3h} - 2ut^{3} - 5u^{3}) dt - 2ut^{3} \int_{8}^{0} -5 \frac{-(8.6)^{3/2}}{5/k} \int_{8}^{0} -3\frac{1}{2} t^{2} \int_{8}^{0} -2ut^{3} \int_{8}^{0} -5 \frac{-(8.6)^{3/2}}{3/k} \int_{8}^{0} \frac{1}{3} \left[e^{3h} - 0 \right] = -74,4077 + 96 + 1972 + 75,4747$$

$$(3 - 2ut^{3} - 2ut^{3} - 2u^{3} - 2u^{$$

ScF.dr; F-(x14) = Lx4,c. 2/5,x5,41); (: rce)= JE, 1+63); 0 < 65 1

$$\frac{Cl)}{P(x,y)} = x^{4}y^{2} \Rightarrow \frac{\partial P(x,y)}{\partial y} = x^{4} \cdot 2y = 2x^{4}y$$

$$\frac{\partial P(x,y)}{\partial x} = \frac{\partial P(x,y)}{\partial x} = x^{4} \cdot 2y = 2x^{4}y$$

$$\frac{\partial P(x,y)}{\partial x} = \frac{\partial P(x,y)}$$

 $\frac{2 \int (x_1 y_1)}{dx} = p(x_1 y_1) - 2 \int (x_1 y_1) = \int_{x_1}^{x_1} y_1 dx = y^2 \int_{x_2}^{x_3} y_1 dx = y^2 - \frac{1}{5} x_2^3 + h(y_1)$

of Si Feds = \$ (xy)] rived Punto med = 250, 1+0) = 20,1)

el Pundoband = (5,111,) = (1,2)

a) Primero gruen

51 Promon open

c) Primera openin

01 20,73

61 (1,2)

J.80