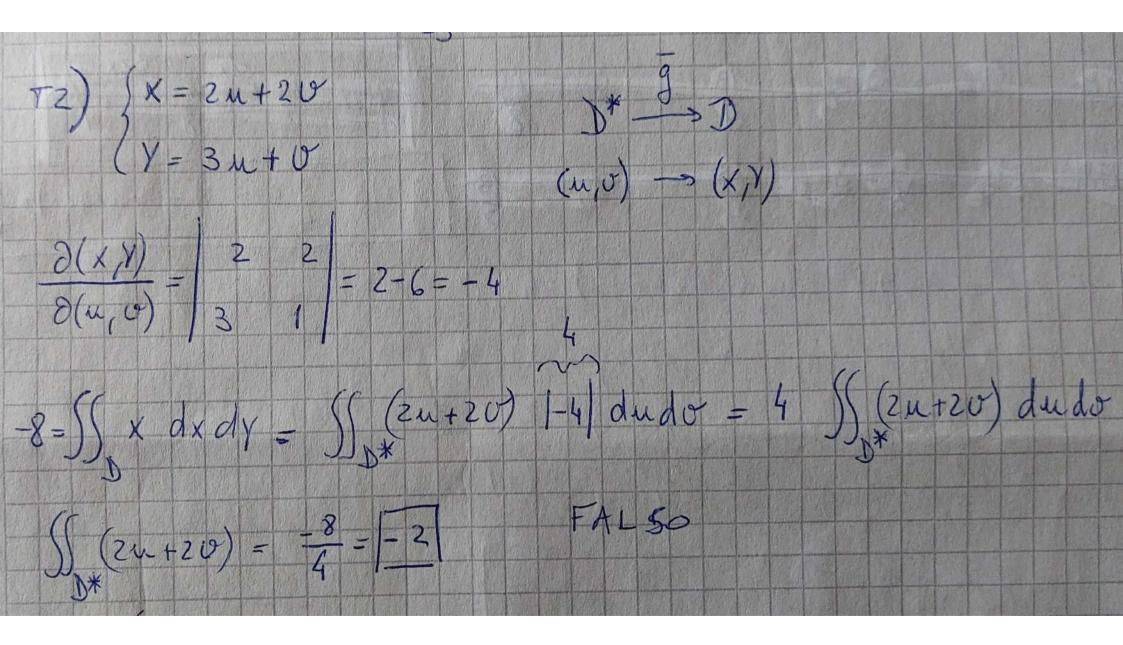
P2) g'-1=-4g=g'+4g=1 -> m2+4=0 - Vc = C1 e + C2 e Yc = C1 cos (2x) + C2 seu(2x) Y= G (00/(x)+(2 New(2x)+ 4 Y'=-2C, 1 sew(2x)+2Cz (00/2x) 4a=1 = a=1 /p= = = Yp = 0 Yp = 0 2C2=6 = C2=3 $f(0,1) = (-4g(0), g'(0) + 1) = (0,7) \Rightarrow$ 9(0)=0 9(0)=6 1 9(x) = - 1 cos(2x) + 3 sen(2x)+ 1

4)
$$\vec{x}(t) = (t-t^2, t-t^4)$$
 $0 \le t \le 1$ $\vec{f}(x,y) = (0,x)$

where $\vec{f}(x,y) = (0,x)$ $\vec{f}(x,y) = (0,x)$

While $S(x_1Y_1 \ge) = k \sqrt{x^2 + y^2}$ where $(E) = \iiint_{x-3}^{2+x} dz dx dy = \iint_{x^2 + y^2} k \sqrt{x^2 + y^2} dx dy = \frac{y - S \sin(y)}{2(S_1 y)} = S$ =5k $\left(\frac{2}{3^2}\right)^2 \left(\frac{2\pi}{3^2}\right)^2 = \frac{10}{3}k\pi = \frac{80}{3}k\pi$

$$\begin{array}{lll} P4) & \chi^{2}_{+} \chi^{2} = 2 & \longrightarrow & \sqrt{(u, \sigma)} = (\sqrt{z} \cos(u), \sqrt{z} / \sin(u), \sigma) & o \leq u \leq 2\pi \\ & \chi^{2}_{+} \chi^{2} + 2^{2} \leq 4 & \longrightarrow & 2^{2} \leq 2 & \longrightarrow & \sqrt{z} \leq 2 \leq \sqrt{z} & -\sqrt{z} \leq \sigma \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \leq \sqrt{z} \\ & -\sqrt{z} \leq \sqrt{z}$$



$$\frac{\phi'_{1} = x^{2}}{\phi'_{1}(x)} \Rightarrow \phi = x^{2}y + \psi(x) \Rightarrow \phi'_{2} = 2xy + \psi'_{1}(x) = 2xy + 2xy g'(x)$$

$$\psi'_{1}(x) = 2x \cdot g'(x^{2}) \Rightarrow \psi_{1}(x) = \int 2x g'(x^{2}) dx = g(x^{2}) + k$$

$$\frac{\phi}{(x,y)} = \mathbf{k} \cdot \xi y + g(x^{2}) + k$$

$$\int f d\lambda = \phi_{(2,5)} - \phi_{(-2,4)} = 20 + g(4) + k - \left(16 + g(4) + k\right) = 4$$

$$\frac{\phi'_{1}(x)}{(-2,4)} \Rightarrow (2,5)$$