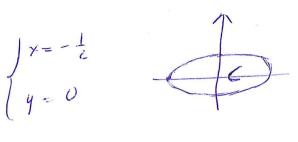
AMALISI MAP. 2 PROF. 5. TALOMA 25 106/2018 SVOLGIMENTO

$$\int \frac{\partial f}{\partial x}(x,y) = -2x - 1 = 0$$

$$\int \frac{\partial f}{\partial y}(x,y) = -4y = 0$$

$$\int x = -\frac{1}{c}$$

$$\int y = 0$$



$$\left(-\frac{1}{2},0\right)$$
 mico punto otoriorenio ni $\left(-\frac{1}{2},0\right)=\frac{9}{9}$

Sul bondo
$$\partial C = 2(x, y)$$
.

periode $\times E[-1, 1]$ on ∂C Nox per $x = -1$ $\{(-1, 0) = 2\}$

This pa
$$x = 1$$
 $f(1,0) = 0$

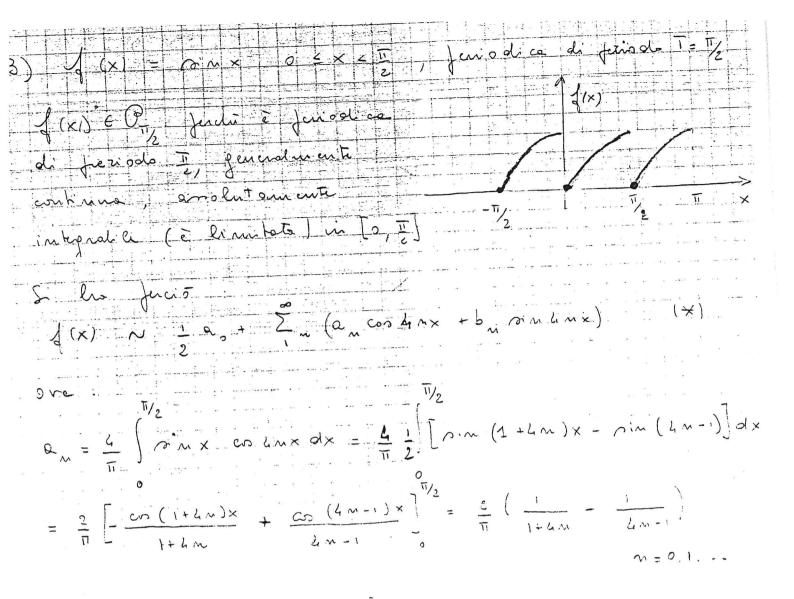
$$(-\frac{1}{2},0)$$
 pruto di mex globele $\text{TeX}_{c}f = \frac{9}{4}$

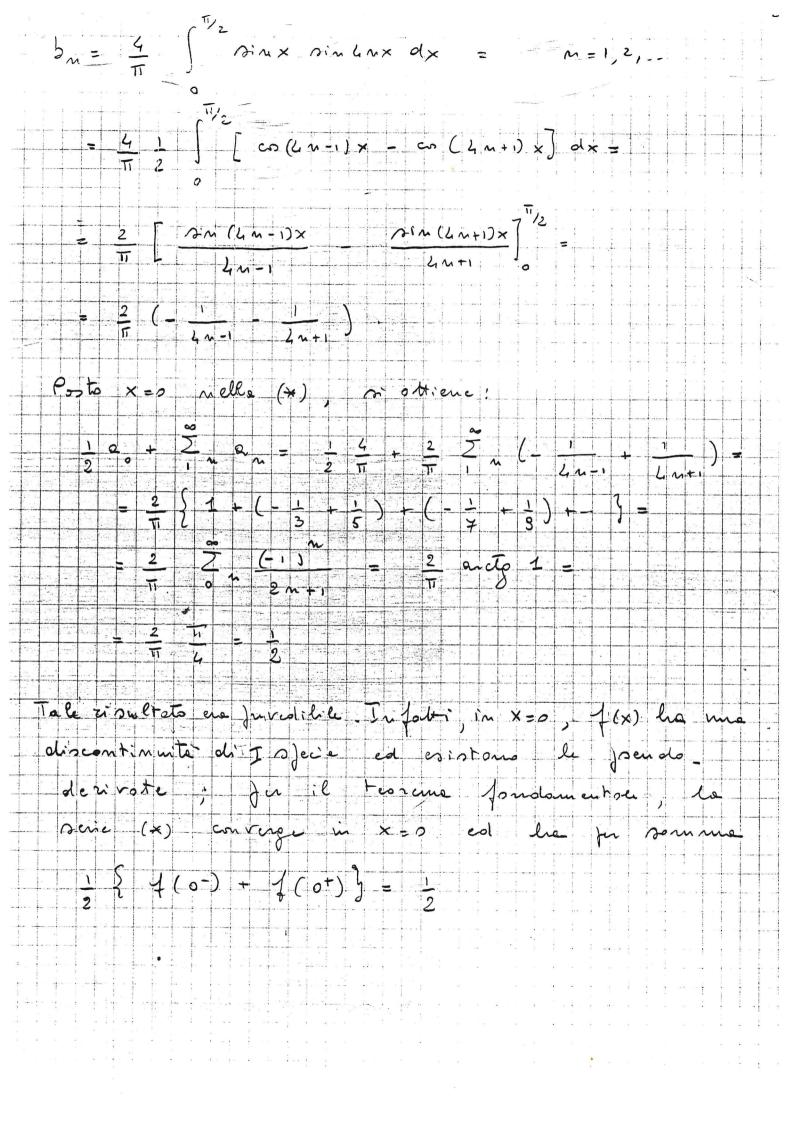
$$(1,0) \qquad \text{in } \quad \text{in } \quad C = 0$$

Porche sulle utterist=0 ni he
$$f/z(x,0)=2-x^2-x=\overline{f(x)}$$

$$\tilde{g}'(x) = -2x - 1 > 0$$
 par $x < -\frac{1}{2}$, in $\mathcal{U}(-1,0)$ is he

puind (-1,0) NON è un nox locale.





3)
$$y' = (YH) \sin x$$
 (#)

eq a variets. sep.

 $g(x) = \sin x$ $f \in \mathcal{C} \infty (R)$
 $g(y) = yH$ $g \in \mathcal{C} \infty (R)$
 $f(x) = y \in \mathcal{C$

sign $\varphi' = \pm \operatorname{sign} \operatorname{sm} \times$ per $\varphi(x) = -1$ $\times = \pi$ put di unin book $\varphi(x) = -1$ $\operatorname{put} \operatorname{di unin} \operatorname{book}$ book $\operatorname{put} \operatorname{di unin} \operatorname{book}$ book $\operatorname{div} \operatorname{book}$ $\operatorname{div} \operatorname{div} \operatorname{div} \operatorname{div} \operatorname{div}$

b)
$$4 \neq -1$$

$$\frac{dy}{4+1} = 3m \times dx \qquad \varphi(x) = -1 + ke$$

$$\varphi(0) = 40 \qquad -1 + ke^{-1} = 40 \qquad k = (40+1) e$$

$$\varphi(0) = 40 \qquad -1 + ke^{-1} = 40 \qquad k = (40+1) e$$

c) + 40 <-1 6, who del relation pull di Condry, e=-1

sur definite on IR -