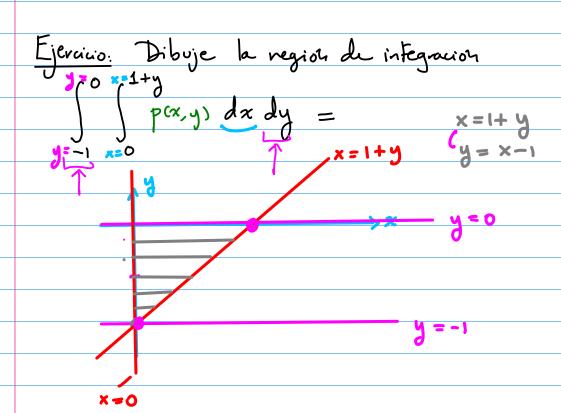
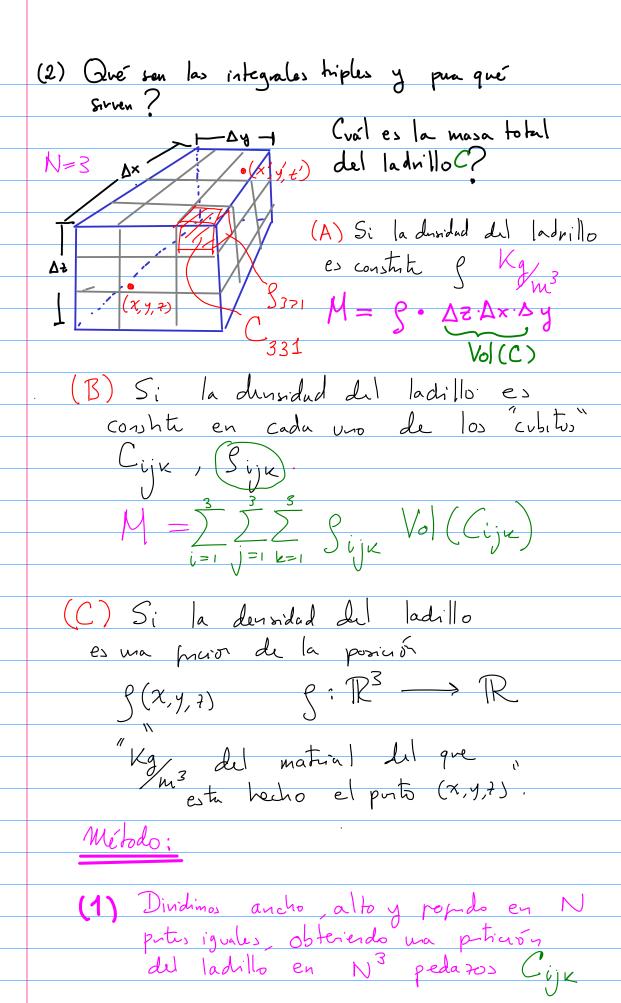


$$= \frac{y \sin(y)}{4} \Big|_{y=0}^{y=1} - \int_{0}^{1} \frac{\sin(y)}{4} dy$$

$$= \frac{\sin(1)}{4} - \int_{0}^{1} \frac{\sin(y)}{4} dy = \frac{\sin(1)}{4} + \frac{\cos(y)}{4} \Big|_{y=0}^{y=1}$$

$$= \frac{\sin(1)}{4} + \frac{\cos(1)}{4} - \frac{1}{4} = \frac{1}{4} \left[\frac{\sin(1)}{4} + \frac{\cos(1)}{4} - \frac{1}{4} \right]$$





(2) Tomo un perto
$$x_{ijk} \in C_{ijk} y$$

defino $S_{ijk} := S(x_{ijk})$

[Asumnos que la duradad es

CONSTANTE en todo el cubo]

(3)
$$M := \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{k=1}^{N} \beta(\overline{x_{ijk}}) \cdot \text{Vol}(C_{ijk})$$

Def:
$$\iint g(x,y,+) dV = \lim_{N \to \infty} M_N$$