$$\int \int \left( \sum_{n=1}^{\infty} (0,1) \right) \left( \frac{1}{n} \right) = \int_{n=1}^{\infty} \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) = \int_{n=1}^{\infty} \left( \frac{1}{n} \left( \frac{1}{n} \right) \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) = \int_{n=1}^{\infty} \left( \frac{1}{n} \left( \frac{1}{n} \right) + b \psi(x) \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) = \int_{n=1}^{\infty} \left( \frac{1}{n} \left( \frac{1}{n} \right) + b \psi(x) \right) \left( \frac{1}{n} \right) \right) dx dx$$

$$= \int_{n=1}^{\infty} \left[ a\psi^{(n)}(1/n) + b \psi^{(n)}(1/n) \right] dx$$

 $= a \sum_{n=1}^{\infty} \varphi^{(n)}(1/n) + b \sum_{n=1}^{\infty} \psi^{(n)}(1/n)$ 

 $= \overline{a \langle T, \psi \rangle + b \langle T, \psi \rangle}$ 

ONFINUD: Sea  $K \subset \Omega$  campacto Sea  $\varphi \in \mathcal{D}_{k}(\Omega)$ 

 $|\langle T, \varphi \rangle| = \left| \sum_{n=0}^{\infty} \varphi^{(n)}(1/n) \right|$ 

≤ [ |p'(1/n)|

 $\leq \int_{n=0}^{\infty} \sup_{x \in \mathcal{K}} |\varphi^{(n)}(x)|$ 

y m = co. Luego, T es distribución de orden infinito

allego, Tes continuo con Cx = 1