$$\frac{\partial k}{\partial t} = k \frac{\partial k}{\partial x^2}$$

$$\mu(\rho, \epsilon) = 0$$
 $\mu(\mu, \epsilon) = 0$
 $\mu(\mu, \epsilon) = 0$

$$\mu = XT$$

$$\frac{X^{11}}{X} = \frac{T^{1}}{X} = -\lambda^{2} < 0$$

$$T = C \Omega$$

$$M(n_{i}t) = \sum_{n=1}^{\infty} D_{n} L \lim_{n \to \infty} \frac{1}{L}$$

$$M(n_{i}t) = m(L-n) = \sum_{n=1}^{\infty} D_{n} \lim_{n \to \infty} \frac{1}{L}$$

$$D_{n} = \frac{2}{L} \int_{0}^{L} Ln \lim_{n \to \infty} \frac{1}{L} dn$$

$$= \frac{2}{L} \left[\int_{0}^{L} Ln \lim_{n \to \infty} \frac{1}{L} dn - \int_{0}^{L} Ln \lim_{n \to \infty} \frac{1}{L} dn \right]$$

 $J_{F} \int n \int n \int n \int n \int dn = -n \int cos n \int dn dn$ $u = n \quad dv = \int n \int n \int dn$ dn = dn dn = dn $v = -L \cos n \partial r$ $n \partial r$

 $\overline{J} = -\frac{2}{n\pi} G n \pi = \frac{2}{n\pi} (-1)^{n+1}$

 $\int_{S} \left[n^{2} \left[\operatorname{senula} \right] \right] = - \frac{n^{2} \left[\operatorname{cosnúz} \right]}{n^{2}} + \frac{2L}{n^{2}} \int_{S} n \left[\operatorname{cosnúz} \right] dn$ $\mu = n^2$ $dv = \delta v = m u u dv$ du = 2ndn $v = -L cs m \bar{u} x$

$$\begin{split}
\mathcal{L}_{3} &= + \frac{L^{2}}{n^{2} \sigma^{2}} \cos n \frac{\pi n}{L} \left(0 - \frac{L^{2}}{n^{2} \sigma^{2}} \left((-1)^{n} - 1 \right) \right) \\
\mathcal{D}_{m} &= 2 \left[L I_{1} - I_{2} \right] = 2 \left[2 L \cdot \frac{L^{2}}{n \pi} \left(-1 \right)^{n+1} \right] \\
&- \left[-\frac{L^{3}}{n \pi} \left(-1 \right)^{n} + \frac{2L}{n \pi} \frac{L^{2}}{n^{2} \sigma^{2}} \left((-1)^{n} - 1 \right) \right] \left\{ \right. \\
&= 2 L^{2} \left(n^{n+1} + \frac{2L^{2}}{n \pi} \left(-1 \right)^{n} - \frac{4L^{2}}{n^{3} \pi^{3}} \left((-1)^{n} - 1 \right) \right. \\
\mathcal{D}_{m} &= \frac{4L^{2}}{n^{3} \pi^{3}} \left(1 - \left(-1 \right)^{n} \right)
\end{split}$$

 $\mu(n,t) = \frac{2}{m^{3}} \frac{4\ell^{2}}{n^{3}} \left(1 - (-1)^{n}\right) 2^{-n \frac{m\pi}{2}}$ gen $n^{\frac{n}{2}}$