Molugos de fiste 14 de Colomb III

 $\mu(0,t) = 0 = \mu(4,t)$ $\mu(n,0) = 0$ $\frac{2\mu}{2t} \Big|_{t=0} = \pi(1-\pi)$

Pro m=xT

\[\frac{1}{X} \frac{1}{2X} = \frac{1}{2^2T} = \frac{1}{2} \colon \left(\text{k l'sol l'2} \)
\[\frac{1}{X} \frac{1}{2X^2} = \frac{1}{1} \frac{1}{2} \colon \left(\text{k l'sol l'2} \)
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 $\chi(0) = 0 = B$ $\chi(0) = 0 = A \text{ and } 0 = 1, 2, 3 \dots$

 $\mu(n,t) = \mathcal{E}\left(\underset{n}{\text{Chunty}}(k+D_{\alpha_{n}}, u_{\alpha_{n}}, t_{k}) \text{ for } n_{\alpha_{n}} t_{k}\right)$ = E Dn Sennie - Dn -M(n,t) = E Cn Senni tk sen mir 24 = É (n nakoso natk sennaz $\sum_{n=1}^{\infty} C_n \frac{n \overline{u} k \operatorname{Sun} n \hat{u} x}{L} = n \left(L - n \right)$

$$k \frac{n \pi}{l} C_n = \frac{2}{l} \int_{0}^{l} n(l-n) \int_{0}^{l} \sin \frac{n \pi}{l} dn$$

$$\int_{0}^{l} n \int_{0}^{l} \sin \frac{n \pi}{l} dn = -\frac{n l}{n \pi} \cos \frac{n \pi}{l} \int_{0}^{l} dn$$

$$\lim_{l \to \infty} dn = -\frac{l}{n \pi} \cos \frac{n \pi}{l} \int_{0}^{l} dn \sin \frac{n \pi}{l} dn$$

$$\lim_{l \to \infty} dn = \lim_{l \to \infty} \ln \frac{l}{n \pi} \int_{0}^{l} dn \sin \frac{n \pi}{l} dn$$

$$\int_{0}^{l} n \int_{0}^{l} n \int_{0}^{l} n dn$$

$$\int_{0}^{l} n \int_{0}^{l} n \int_{0}^{l} n dn$$

$$\int$$

 $= -\frac{13}{n\sigma} \left(-1\right)^{2} + \frac{21}{n\sigma} \int_{0}^{1} e^{-\frac{\pi}{2}} dx$ m=n2 dn=2ndn dre - fen nur dn V = - L Comit $\frac{2L}{n\pi} \left\{ \frac{2L}{n\pi} \left\{ \frac{2L}{n\pi} \right\} \right\} = \frac{2L}{n^{2}\pi^{2}} \left(\frac{2L}{(-1)^{2}-1} \right)$ $= + \frac{2L}{n^{2}\pi^{2}} \cos \frac{n\pi}{L} \right\} = \frac{2L}{n^{2}\pi^{2}} \left(\frac{(-1)^{2}-1}{n^{2}} \right)$ n asmaa In n=r dn=dn In = comin de

v = L senzi.

$$k \frac{m \dot{u}^{C_{m}}}{L} = 2 \left[\left(\frac{2}{n \dot{u}} \left(-1 \right)^{n} \left(-\frac{2}{n \dot{u}} \left(-1 \right)^{n} + 2 L \right) \frac{2}{n \dot{u}} \left(\left(-1 \right)^{n} - 1 \right) \right] \right]$$

$$\frac{N^{\frac{1}{4}}C^{\frac{1}{4}}}{L} = \frac{2}{L} \left[\frac{2}{n^{\frac{3}{4}}} \left(-1 \right)^{\frac{1}{4}} + \frac{2}{L^{\frac{3}{4}}} \left(-1 \right)^{\frac{1}{4}} - \frac{2}{2} \left(-1 \right)^{\frac{3}{4}} - \frac{2}{1} \right]$$

$$= -\frac{4C^2}{N^{3\pi^3}}((-1)^{3\pi}-1)$$

$$\mathcal{M}(n_i t) = \sum_{n=1}^{\infty} \frac{-4\ell^2}{n^3 i^3} \left((-1)^n - 1 \right) \operatorname{Pen} \underbrace{n_i t_k}_{\zeta} \operatorname{Sen} \underbrace{n_i t_k}_{\zeta}$$