$$\frac{1}{3u} - \frac{3^{2}u}{3t^{2}} = \frac{2}{1-\ln n}, 02x2l, t>0$$

$$\frac{3u}{1+2} - \frac{3x^{2}}{3x} = \frac{1}{1-\ln n}, 02x2l, t>0$$

Vingen penerne B Bure:

$$u(x,t) = J(x,t) + w(x,t)$$
, ree

Museu w(x,t)=a(t)x2+B(t)x+C(t)

$$(1)_{200} a(t)_{20}, (0)_{20} b(t)_{20} =>$$

$$\omega(x,t) = \frac{t^2}{2(1-hl)}x$$

Torsa



$$\int \frac{\partial y}{\partial t^{2}} - \frac{\partial y}{\partial x^{2}} = \frac{x}{1 - \ln x} - \frac{2x}{2 + \ln x} = 0$$

$$\int \frac{\partial y}{\partial t} - \frac{\partial y}{\partial x} = \frac{1 - \ln x}{2 + \ln x} + \frac{2x}{2 + \ln x} = 0$$

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Noloso Buer B luop. 4p-e:

$$T''(t) = \chi''(x)$$

$$T''(t) = \chi''(x) = \lambda^2 \Rightarrow \text{correction sacarey}$$

$$T(t) = \chi(x) = \lambda^2 \Rightarrow \text{correction sacarey}$$

$$Utypus - Nuysenhi$$

$$\begin{cases} X''(x) - \lambda X(x) = 0 \\ X(0) = 0 \\ X'(l) - h X(l) = 0 \end{cases}$$
, transper ce permeteue:

$$\chi(0) = C_{5} = 0$$

 $\chi'(l) - h\chi(l) = \lambda C_{2} cos(\lambda l) - h C_{2} sin(\lambda l) = 0 =>$

C2 \$0,50000 \frac{\lambda}{h} = \lambda g \lambda l. Permerus \lambda r 20000

reminentation yp-2 SBN. cottableperum 3 representation, Tores cottable Q-un $X_{K}(x) = S_{0} K(\lambda_{K} x)$. Orcho re

$$\mathcal{L}(x'f) = \sum_{\infty} \mathcal{L}^{\kappa}(f) \operatorname{sen}(y^{\kappa}x)$$

Normasam B Dugo. 4p-e:

$$\sum_{k=1}^{\infty} T_{k}''(t) son(\lambda_{k}x) + \sum_{k=1}^{\infty} T_{k}(t) \lambda_{k} son(\lambda_{k}x) = 0 = >$$

$$\sum_{k=1}^{\infty} (T_{k}''(t) + \lambda_{k}^{2} T_{k}(t)) son(\lambda_{k}x) = 0 = >$$

$$T_{k}''(t) + \lambda_{k}^{2} T_{k}(t) = 0$$

Novacaban Borpanerene J(x,t) Break Genobans:

$$\sqrt{\frac{2}{1-2}} \sqrt{\frac{1}{1-2}} \sqrt{\frac$$

$$\int_{\mathbb{R}^{2}} \int_{\mathbb{R}^{2}} \int_{$$

$$-\frac{1}{\lambda_{\kappa}^{2}}\cos \lambda_{\kappa}l - \frac{l}{\lambda_{\kappa}} + \frac{l}{\lambda_{\kappa}}\cos \lambda_{\kappa}l - \frac{l}{\lambda_{\kappa}}\sin \lambda_{\kappa}l \left(\frac{l}{2} - \frac{\sin 2\lambda_{\kappa}l}{\lambda_{\kappa}}\right)$$

$$\frac{\partial J}{\partial t}\Big|_{t=0} = \sum_{\kappa>2} T_{\kappa}(0) \sin(\lambda_{\kappa} x) = 0 \Rightarrow \text{ econeum}$$

COCERBUTO BARAUS Koun:

, mujer penerene:

Tr (7) = Cxcos Art)+ Cason (Art)

=> Tr(t)= (product)

Toras momen someous pennerue accornos

30 Rayen:

$$\mathcal{U}(x,t) = \frac{t^2}{2(3-hl)} \propto + \sum_{k=3}^{\infty} \varphi_k \cos(\lambda_k t) \sin(\lambda_k x)$$