TALLERYO

1)
$$M_t = ku_{xx}$$
 $x_c(0,3)$
 $M(0,t) = u_x(3,t) = 0$ $M(x,0) = sm\frac{\pi}{2}x - 2m\frac{5}{6}x$

b)
$$1/(x) = 0$$
 on $(1/x) + b$ son $(1/x)$

$$C = 0$$
 J $W(3) = b cos(37) = 0$

$$M_{(X,t)} = \frac{1}{2} \operatorname{Sen}(\lambda_{x}) e$$

$$M(X,t) = \frac{1}{2} \operatorname{Bn} \operatorname{Sen}(\lambda_{x}) e$$

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$$A(\chi,t) = \text{Sen}\left(\frac{\pi}{2}\chi\right)e^{-\frac{\pi^2\kappa^2t}{4}} - \text{Sen}\left(\frac{5\pi}{6}\chi\right)e^{-\frac{25\pi}{26}\pi^2\kappa^2t}$$

Z] A autopadjuto & a costado

Ucando lone 1.7 Faloni-

$$A^2 M = |A|^2 M$$

12u-11A112u=0

(A-11A111) (A+ 11A11] u=0

obien (A-114117) w=0=) Du=11411 - 7=11411

ο (Δ+1)A4] ν=D =)Δν=-11Δ4ν ... 7 = -11Δ4

 $\Delta = \begin{pmatrix} a b \\ c d \end{pmatrix}$

$$3) \quad A = (a_{ij}) \in \mathcal{M}^{m_n}$$

||A||_ = ~~ = |ais|

$$|Ab = \rangle \Delta^{\dagger} A = () =]$$

$$\rho(A^{\dagger}A) = () = []$$