3adara 2.3 (4(x, 6) $u = u(\alpha, \xi)$ Utt = v2 Uxx 0 = 2 = e, t>0 (u(o,t)=u(e,t)=0 u(x,0) = 4 2/e Nozaskobi unxariornus esay 3 adara mat Edunes (odere) upu

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Pozisejanne
1) Pozisejano jadary na bracui modu - $\begin{cases} \mathcal{U}_{t+1} = v^2 \mathcal{U}_{xx} \\ \mathcal{U}(o,t) = \mathcal{U}(e,t) = 0 \end{cases} \frac{\mathcal{U}(x,t) = \mathcal{T}(t) \times (x) \neq 0}{l^2 - \kappa u} = 0$ $\begin{cases} \mathcal{U}_{t+1} = v^2 \mathcal{U}_{xx} \\ \mathcal{U}(o,t) = 0 \end{cases} \frac{\mathcal{U}(x,t) = \mathcal{T}(t) \times (x) \neq 0}{l^2 - \kappa u} = 0$ $\begin{cases} \mathcal{U}_{t+1} = v^2 \mathcal{U}_{xx} \\ \mathcal{U}_{x+1} = v^2 \mathcal{U}_{x} \\ \mathcal{U}_{x+1} = v^2 \mathcal{U}_{xx} \\ \mathcal{U}_{x+1}$ (1) $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) = (A_{n}\cos \omega_{n}t + B_{n}\sin \omega_{n}t) \cdot 8n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) \cdot 4n'_{n} \frac{n\pi}{2} \cdot 4n'_{n} \frac{n\pi}{2} \cdot 4n'_{n} \frac{n\pi}{2}$ $\int U_{n}(x,t) \cdot 4n'_{n} \frac{n\pi}{2} \cdot 4n'_{n} \frac{n\pi}{$ Xu (x) - 61. d-" genari Ulr. Nox.

2) Anger Canada a no garanous postsone: (3) u(e,t) = = u, (x,t) = = \(\langle \(\An \) \(\omega \) \(\omeg $u(\chi_{io}) = 0$ \Rightarrow $\chi_{io}(\chi_{io}) = \varphi(\chi)(e)$ $U_{b}(x,0) = \sum_{h=1}^{\infty} (-A_{h} w_{h} \mathcal{E}_{h} w_{h} t + B_{h} w_{h} \mathcal{E}_{h} w_{h} t) \lambda_{h}(a)$ Wit(2,0) = 0 => => => => WuBu : Xu(x) = 4(x) V Odepmany 2 ymoba gre bujuarenne Au, By

