ZADANIE OBLICKENSONE - & MES

Nibragic almostycene ranstry materiatu:

$$\begin{pmatrix}
\frac{\partial^2 u}{\partial x} & u = \sin x & -u''(x) - u = \sin x \\
u(0) = 0 & u(0) = 0
\end{pmatrix}$$

$$\frac{u(0)}{\partial x} - u(2) = 0 & u''(2) - u(2) = 0$$

$$u = possuluiana funkça$$

$$[0,2] \ni x \rightarrow u(x) \in \mathbb{R}$$
Sjornutovanic stabe:

$$u(0) = 0 - \text{Nomineth bacegony Dirithleta } u = 0$$

$$\frac{u(0)}{\partial x} - u(2) = 0 - \text{Nomineth bacegony Rabina } u = 2$$

$$\frac{u}{\partial x} = [0,2]$$
Na length bacque productu vyatypyje Navieneta Dirithleta, ale jist on rolmy 0 nige met theta uprovador' presumpcia.

$$-u'' - u = \sin x / v , u'(2) - u(2) = 0 \Rightarrow u'(2) = u(2)$$

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$$-u'' - u = \sin x / v , u'(2) - u(0)v(0) = (-\frac{3}{2}u''dx - u'(2)v(2)$$

$$-u'(0)v(0) - \frac{3}{2}uvdx = \frac{2}{2}\sin x vdx$$

$$-u''(0)v(0) - \frac{3}{2}uvdx - \frac{2}{2}u'(2)v(2) + u'(0)v(0) = \frac{3}{2}\sin x vdx$$

$$-u'' - \frac{3}{2}uvdx - \frac{2}{2}u'(2)v(2) + u'(0)v(0) = (-\frac{3}{2}u''dx - u'(2)v(2)$$

$$-u'(0)v(0) - \frac{3}{2}uvdx - \frac{2}{2}u'(2)v(2) + u'(0)v(0) = (-\frac{3}{2}u''dx - u'(2)v(2)$$

$$-u'(0)v(0) - \frac{3}{2}uvdx - \frac{2}{2}u'(2)v(2) + u'(0)v(0) = (-\frac{3}{2}sinx vdx$$

$$-u''(0)v(0) - \frac{3}{2}uvdx - \frac{2}{2}u'(2)v(2) + u'(0)v(0) = (-\frac{3}{2}sinx vdx$$

Skoro marry Harunell Dirichleta, to funliga v na briege będuże się zarokać.

$$V(0) = 0$$

$$\frac{2}{3}u'v'dx = -\int uvdx - u(2)v(2) = \int \sin x v dx$$

$$\frac{1}{3}u'v'dx = -\int uvdx - u(2)v(2) = \int \sin x v dx$$