sobota, 16 grudnia 2023 13:38
$$\begin{cases} \frac{d^2\phi}{dx^2} = 47799(x) & \text{gdife:} \\ y(x) = \begin{cases} 0, x \in [0, 1] \\ 0, x \in [1, 2] \\ 0, x \in [2, 3] \end{cases}$$

$$\phi(0) = 5$$

$$\phi(3) = 4$$

$$Q \in \mathbb{R}$$

$$\phi(3) = 4$$

$$Q \in \mathbb{R}$$

$$\frac{d^2\phi}{dx^2} = \rho(x) / V \qquad \text{mixed} \qquad \frac{\text{fill } GQ(x) = \rho(x)}{\text{mixed}}$$

$$\varphi'' \vee = \ell(x) \cdot \vee / \hat{\beta}$$

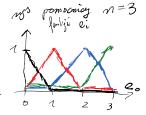
$$\int_{0}^{3} \varphi'' \vee k = \int_{0}^{3} \ell(x) \cdot \vee dx$$

$$\left\langle \int \int \cdot g \, dx = \left\langle \int \frac{u^2}{u^2} \right\rangle = \left(\frac{1}{2} - \frac{1}{2} \right) = \left($$

$$\left[\phi!\sqrt{\int_{0}^{3} - \int_{0}^{3} \phi' \sqrt{dx} \right] = \int_{0}^{3} \ell(x) \cdot \sqrt{dx}$$

$$\phi'(3) \cdot v'(3) - \phi'(0) \cdot v'(0) - \int_{3}^{3} \phi' v' dx = \int_{3}^{3} \varrho(x) \cdot v dx$$

$$\beta(\phi, v) = L(v)$$



 $\beta(\phi, v) = L(v)$ book women to do poustloyd marane

niech
$$\phi = \beta + \omega$$

Shifter"

Therefore the purish bedien the purish bedien the purish letters:

to titudy
$$w(0) = 0$$

$$w(3) = 0$$

$$\tilde{p}(3) = 4$$

$$\mathcal{F}(x) = \frac{1}{3}X + 5$$

$$B(\widetilde{\phi} + w \vee) = L(v)$$

$$B(\tilde{\beta}_{\perp} \vee) + B(w_{\perp} \vee) = L(\nu)$$

$$B(w,v) = L(v) - B(\tilde{s},v)$$

$$B(w,v) = \widetilde{L}(v)$$

voruiszijen dla W, waruli pozythou dla & rungly diso me

$$\begin{cases}
\phi \in \text{dim} \{ \mathcal{Q}_0, \mathcal{Q}_1, \dots, \mathcal{Q}_n \} \\
\phi = \mathcal{J} + \mathbf{W}
\end{cases}$$

$$\Rightarrow W = W_0 \cdot Q_0 + W_1 Q_1 + \dots + W_{m-1} Q_{m-1} + W_m Q_m$$

i subsy
$$w(0) = 0 \wedge w(3) = 0$$

$$a = \sum_{v} (v) = \sum_{v} (v) - B(\tilde{p}, v) = (x)$$

$$B(\tilde{\phi}, v) = \sum_{i=1}^{N} (i) - B(\phi, v) = (k)$$

$$B(\tilde{\phi}, v) = \sum_{i=1}^{N} (i) \cdot v^{i}(3) - \sum_{i=1}^{N} (i) \cdot v^{i}(0) - \sum_{i=1}^{N}$$

$$=\frac{1}{3}\left(v'(3)-v'(0)-\int_{0}^{3}v'dx\right)=\frac{1}{3}\left(v'(3)-v'(6)-v(3)+v(0)\right)$$

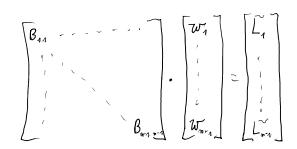
$$= \frac{1}{3} \left(v'(3) - v'(0) - \frac{1}{3} v' dx \right) = \frac{1}{3} \left(v'(0) - v'(3) - v(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(3) - v'(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(3) - v(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(3) - v(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(3) - v(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(3) - v(0) + v(3) \right) = \frac{1}{3} \left(v'(0) - v'(0) - v'(0) - v'(0) \right) = \frac{1}{3} \left(v'(0) - v'(0) - v'(0) - v'(0) \right) = \frac{1}{3} \left(v'(0) - v'(0) - v'(0) - v'(0) \right) = \frac{1}{3} \left(v'(0) - v'(0) - v'(0) - v'(0) \right) = \frac{1}{3}$$

na to rockió na calki O , ovoz jedną catke Ictory westoró jest > O (zamienojno bylko gósily" ez a

$$[1,2] \not \Rightarrow (X_{j+1}, X_{j+1}) \rightarrow L_{j} = 0$$

cathi 20 i jedny cathe letog wortesé > 0 na directimie (Xi-1 XiE)

Aby obligit which potruba usuing the , 2a pomois maday



wiedy w = w, e, + ... + Wm- em-

 $\phi = \tilde{\phi} + w = \frac{1}{3} \times + 5 + w_1 \cdot e_1 + \dots + w_{n-1} \cdot e_{n-1}$