



$$e_{i} = \begin{cases} \frac{x - x_{i-1}}{x_{i} - x_{i-1}} & \text{dla } x \in (x_{i-1}, x_{i}) \\ \frac{x_{i} + 1 - x_{i}}{x_{i+1} - x_{i}} & \text{dla } x \in (x_{i}, x_{i+1}) \end{cases}$$

$$e_{i} = \begin{cases} \frac{1}{n} & \text{dla } x \in (x_{i}, x_{i+1}) \\ \frac{1}{n} & \text{dla } x \in (x_{i}, x_{i+1}) \end{cases}$$

$$e_{i} = \begin{cases} \frac{1}{n} & \text{dla } x \in (x_{i} - 1, x_{i}) \\ -\frac{1}{n} & \text{dla } x \in (x_{i} - 1, x_{i}) \\ -\frac{1}{n} & \text{dla } x \in (x_{i} - 1, x_{i}) \end{cases}$$

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można tatwo zauwożyć, że
$$B(e_i, e_j) \neq 0 \iff |i-j| \leqslant 1$$

Ma $i+1=j$ $B(e_i, e_j) = -\int_{h^2}^{1} dx = \int_{h^2}^{1} dx$

Mu $i=j$ $B(e_i, e_j) = -\int_{h^2}^{1} dx$
 $= \int_{h^2}^{1} dx$

Mu $i=j+1$ $B(e_i, e_j) = -\int_{h^2}^{1} dx = \int_{h^2}^{1} dx$

WPP $B(e_i, e_j) = 0$

WPP $B(e_i, e_j) = 0$