Wednesday, March 6, 2024 8:13 AM

them

$$\max M_i = \max(M^{o}, M^{n+i}) = 0$$

2. Minimum principle

$$W_0 = W_{n+1} = 0$$
and $h \leq \overline{h}$

3. The system
$$-\frac{W_{i+1}-7W_{i}+W_{i-1}}{h^{2}} + 6\frac{W_{i+1}-W}{h} = 0$$

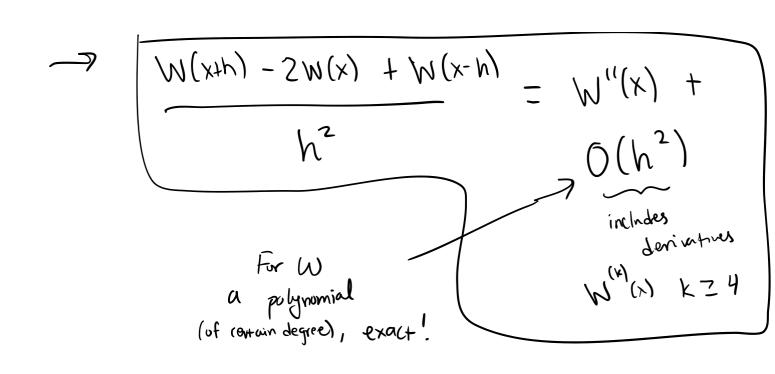
$$\frac{M_{i+1}-W_{i}+W_{i-1}}{h^{2}} + 6\frac{W_{i+1}-W}{h} = 0$$

$$\frac{M_{i+1}-W_{i}+W_{i}}{h^{2}} = 0$$

$$\frac{M_{i+1}-W_{i}}{h^{2}} = 0$$

$$\frac{M_{i+1}-W_{i}}{h$$

 $+ \bigcirc (h^4)$



P2.

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$$V \in C'(K)$$
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 $\max_{x} |v(x)| \leq C ||v||_{H^{1}}$ $|v(0)| \leq C ||v||_{H^{1}}$

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[V(O)] = 0 1 1 v(1) = < (| | | | | | | If (V(0) = 0 $\max_{v(x)} |v(x)| \leq C ||v'||_{12}$ (va) < < (| | vi | | 2 (v(0)) 4 C/|v'||,2 General V V(x) =(x)V(x-1) + (1-x)V(x)V2(X) (= [V(1)] < C [| V' |], 2 V1(x) = V(x) + XV'(x) ||V'|||2 - C(||v||2+ ||V'||)2 $= |V_2(0)| \leq C(|V||_2 + ||V||_{L^2})$ (0)

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 $\frac{d_{1}(x)}{d_{3}(x)} = 0$ $\frac{d_{3}(x)}{d_{3}(x)} = 0$ $\frac{d_{3}(x)}{d_{3}(x)} = 0$ $\frac{d_{3}(x)}{d_{3}(x)} = 0$

 $\phi_1 + \phi_2 + \psi_3 = \frac{1}{\alpha}$