2020년 9월 9일 수요일 오후 5:43

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$$A = \frac{1}{(\alpha x)^2} \begin{pmatrix} (\alpha x)^2 & \cdots & 0 \\ 1 - \lambda & 1 & \cdots \\ 0 & 1 - \lambda & 1$$

9 AX=b = Linear solver 3 로에서 X 기합.

Problem 2.

$$b = \begin{cases} 0 \\ 0 \end{cases}$$

$$b = \begin{cases} S(x_1 - \frac{\alpha}{2}) \\ 0 \end{cases}$$

$$S(x_1 - \frac{\alpha}{2}) \end{cases}$$

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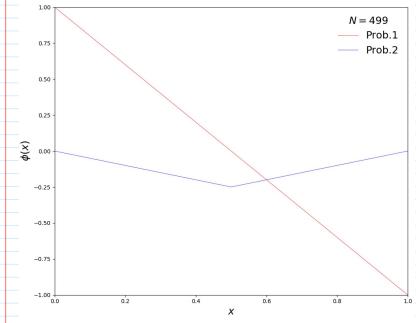
$$S(x_1 - \frac{\alpha}{2}) \end{cases}$$

$$S(x_1 - \frac{\alpha}{2}) \end{cases}$$

$$S(x_2 - \frac{\alpha}{2}) = \begin{cases} 0 \\ (x \neq x_{\frac{n+1}{2}}) \\ \frac{1}{6x} \\ (x = x_{\frac{n+1}{2}}) \end{cases}$$

$$S(x_1 - \frac{\alpha}{2}) \end{cases}$$

N = 499, $\alpha = 1$, $\Delta x = \frac{\alpha}{\nu - 1}$



Exact solutions

- is problem 1. $\beta(x) = -2x + 1$ problem 2. $\beta(x) = \frac{1}{2}|x \frac{1}{2}| \frac{1}{4}$ (i) $\frac{d\beta(x)}{dx}|_{x=0} \frac{d\beta(x)}{dx}|_{x=a} = 1$
- solutions of exact