$$b'' = b^2 5/ng$$
 $b'(0) = 0$ $b(\pi) = 1$

$$\begin{cases} \frac{1-1}{2} & -2b_1 + 2b_2 - h^2 b_1^2 \sin b_1 = 0 \\ 1 = 2 - n - 1 & b_{1-1} - 2b_1 + b_{1} + 1 - h^2 b_1^2 \sin b_1 = 0 \\ 1 = h & b_n = 0 \end{cases} \Rightarrow \text{ Using matters}$$

\$ 8000

$$\begin{cases} b_{1} = 0.5 \\ b_{11} - 2b_{1} + b_{11}, + 2b_{1} (2x_{1}b_{1}' + b_{1})h^{2} = 0 \end{cases}$$

$$\begin{cases} b_{n+1} - b_{n+1} = -\frac{a}{2} \\ b_{n+1} = -2b_{n} + (b_{n+1} - \frac{4}{4}h) + 2b_{n}(2x_{n}(\frac{2}{4}) + b_{n})h^{2} = 0 \end{cases}$$

=> Using mutcas

$$\frac{d^2T}{dx^2} = -\frac{1}{x} \frac{dt}{dx^2} = -\frac{1}{x} \frac{dt}{dx}$$

think
$$z = \frac{1}{\alpha}$$
 $z = \frac{1}{\alpha}$ $z = \frac{1}$

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10 2-2-9

12 2-2-20 using mad lab

Using matlab X = 2,4014 X = 19,7222 2,6010 19,4444 2,6288 18,3333 2,5011 10,0000 2,4901 16,0000

2,4873 2,4519 2,3205 1,8301

8-2-6 6''=x6, 6(1)=1.5 6(2)=3 $6''=\frac{5}{4^2}$

-> $b_{1} + 0 + m + 0 = 1.5$ $b_{1} - 2b_{1} + b_{1} - h^{2} x_{1} b_{1} = 0$ Trichasonal Coefficient Matrix $0 + m + b_{1} = 3$

=> Uslus matlab

W 8-2-8

 $\chi^2 b'' + \chi b' + b = 0$, b(0) = 0, b(2) = 0.638961.

b"= - \frac{1}{20}b' - \frac{b}{20}

 $b_{1} + 0 + 111$ $b_{1-1} - 2b_{1} + b_{1} - h^{2} \left(-\frac{b_{1} + b_{1}}{2hx_{1}} - \frac{b_{1}}{x_{1}^{2}} \right) = 0$ 0 + 111

=> Using medials