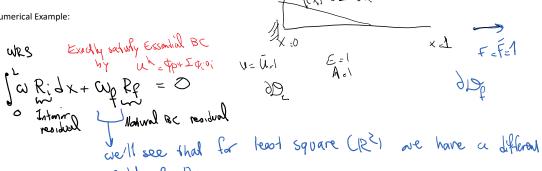
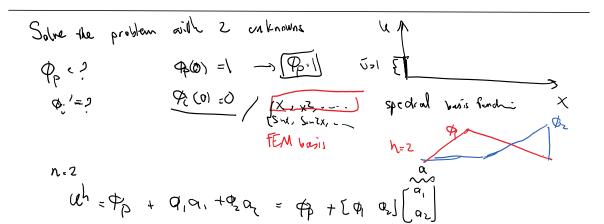
Numerical Example:



R:
$$(EAu') + 9 =$$

$$L_{M}(u) - r$$

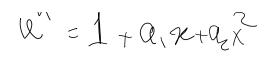
$$Diff operator recree
$$Rf = F - L_{f}(u) \cdot n = f - EA(u)' \cdot n \qquad L_{f}(f) \cdot EA(f)'$$$$

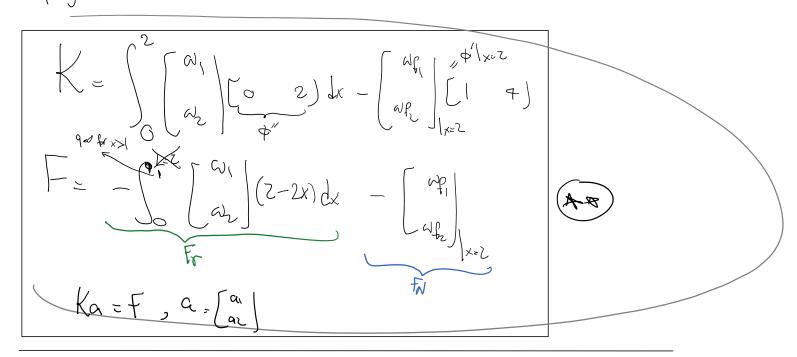


Although, I know what will be used for phi_1, phi_2, phi_p, I'll keep them as general functions below

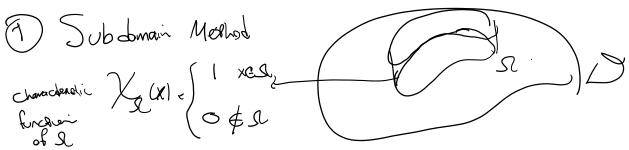
$$W = \begin{bmatrix} \alpha_1 \\ \alpha_2 \end{bmatrix} \quad \text{old} \quad \begin{bmatrix} \alpha_1 \\ \alpha_2 \end{bmatrix} \quad \text{old} \quad \text$$

)] 1 900 = 1 + Q, x+a, x

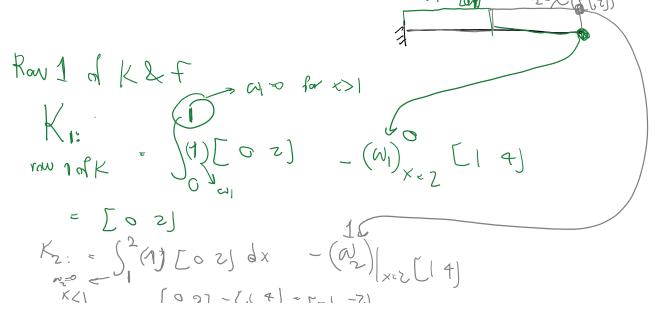




Chaos Par W:



Basically this choice of weight function satisfies the **balance law** on finite number of characteristic sets considered.



$$K = \begin{bmatrix} 0 & 2 \\ -1 & -2 \end{bmatrix}$$

$$F_1 = \int_{0}^{1} \left(\frac{2-2x}{2} \right) x - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

$$F_2 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{2-2x}{2} \right) - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

$$F_3 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{2-2x}{2} \right) - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

$$F_4 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{2-2x}{2} \right) - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

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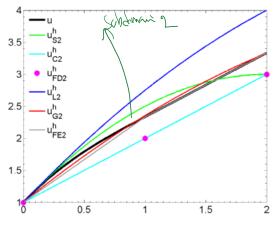
$$F_4 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{2-2x}{2} \right) - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

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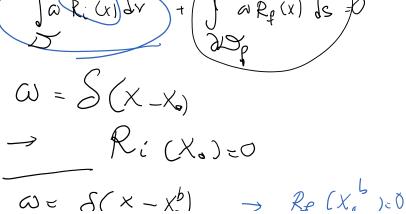
$$F_4 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{2-2x}{2} \right) - \frac{2}{2x} \left(\frac{x-2}{2} \right) = -1$$

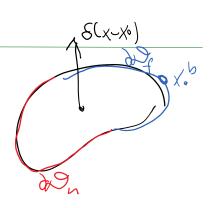
$$F_4 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{x}{2} \right) - \frac{2}{2x} \left(\frac{x}{2} \right) \left(\frac{x}{2} \right) = -1$$

$$F_5 = -\int_{0}^{1} \frac{2}{x} \left(\frac{x}{2} \right) \left(\frac{x}{2} \right) - \frac{2}{x} \left(\frac{x}{2} \right) - \frac{2}{$$



2. Collo cation Melhor Jaria de + () arg (x) de =







$$G = S(x - \chi_0^b) \rightarrow R_p(\chi_0^b) = 0$$

$$\begin{cases} R_1 : x^b = 1 \\ R_2 : x^b = 1 \end{cases}$$

$$\begin{cases} R_2 : x^b = 1 \\ R_3 : x^b = 1 \end{cases}$$

$$\begin{cases} R_4 : x^b = 1 \\ R_4 : x^b = 1 \end{cases}$$

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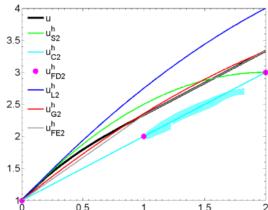
$$\begin{cases} R_4 : x^b = 1 \\ R_4 : x^b = 1 \end{cases}$$

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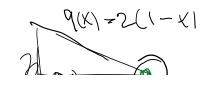
$$\begin{cases} R_4 : x^b = 1 \\ R_4 : x^b = 1 \end{cases}$$

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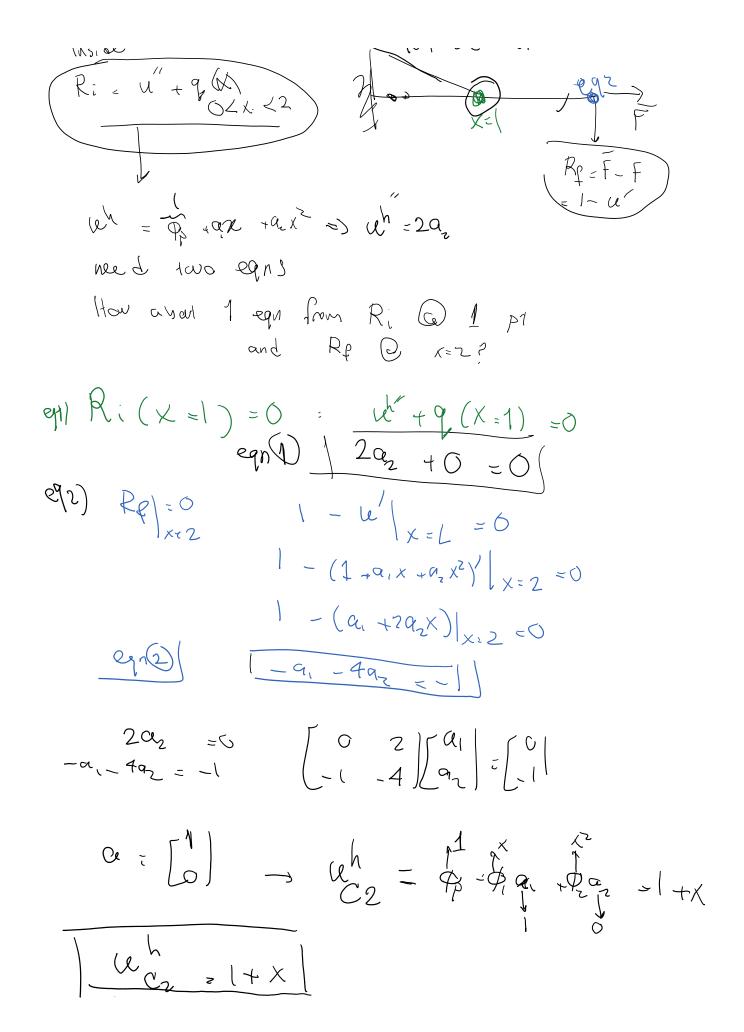
$$\begin{cases} R_4 : x^b = 1 \\ R_4 : x^b$$



Rizu"+96



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FEM Page (

HW 4 conknowns

Uh=1+Q, X 4 azx + 93 x3 + 94 x4

Ri = W"+9/X)

