STOMOTE VOLENTIN

$$C = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 2 & 0 & 1 \end{pmatrix} - \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 5 \\ 2 & 0 & 1.5 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & -5 \\ 0 & 0 & -0.5 \end{pmatrix}$$

$$r_3^{-1} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -2 & 0 & 1 \end{pmatrix}$$

$$M = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -2 & 0 & 1 \end{pmatrix} \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & -5 \\ 0 & 0 & -0.5 \end{pmatrix} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & -5 \\ 0 & 0 & -0.5 \end{pmatrix}$$

$$d = B^{-1}L$$

$$= \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -2 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 \\ 15 \\ C.5 \end{pmatrix} = \begin{pmatrix} 1 \\ 15 \\ 6.5 \\ 5.5 \end{pmatrix}$$

· Studiere a cen ver genter

Volerile proprii se not geri resolvend earlie: Let det (73, -M) =0

$$\eta_{1,2} = 0, \quad \eta_{2} = -0.5 \quad = 1 \quad P(M) = 0.5 + 0.5 \quad (k)$$

$$0.5 < 2.1 = 1 \quad x \quad -3.x \quad x < -3.x$$

$$\chi^{(0)} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\chi^{(1)} = M_1 \chi^0 + 2 = \begin{cases} 0 & 0 & 0 \\ 0 & 0 & -5 \\ 0 & 0 & -0.5 \end{cases} \begin{pmatrix} 1 \\ 15 \\ 45 \end{pmatrix}$$

$$= \begin{pmatrix} 0 \\ -5 \\ -0.5 \end{pmatrix} + \begin{pmatrix} 1 \\ 14 \\ 5.5 \end{pmatrix} = \begin{pmatrix} 1 \\ 10 \\ 5 \end{pmatrix}$$

STOMOTO VOCENTIN

2.
$$X_0 = -\lambda$$
 $Y_0 = -\lambda$
 $X_1 = 0$ $Y_1 = -\zeta$
 $X_2 = \lambda$ $Y_2 = \lambda$
 $X_3 = \zeta$ $Y_3 = \zeta$

Polinamul de citapolore lagrange (3(x), polinam de grand 3. C3(x) = Yi V i 20,5

Forma menton a polinomalni de interpolore lagronge: schen lui ditken

$$L_{3}(x) = Y_{0} + \{X_{0}, X_{1}\}(x - X_{0}) + \{X_{0}, X_{1}, X_{2}\}(x - X_{0})(x - X_{1}) + \{X_{0}, X_{1}, X_{2}, X_{3}\}(x - X_{0})(x - X_{1})(x - X_{2}) + \{X_{0}, X_{1}, X_{2}, X_{3}\}(x - X_{0})(x - X_{1})(x - X_{2}) + \{X_{0}, X_{1}, X_{2}, X_{3}\}(x + 2) + \{X_{0}, X_{1}, X_{2}\}(x + 2) \times + \{X_{0}, X_{1}, X_{2}\}(x + 2) \times (x - 2) \xrightarrow{\text{des}} \}$$

$$\{-2,0\} = \frac{-2}{-2} + \frac{-5}{2} = 1 + (-2) = -1$$

$$[-2,0,2] = \frac{-2}{(-2)(-5)} + \frac{-5}{2 \cdot (-2)} + \frac{2}{5 \cdot 2} = \frac{1}{5} + 1 + \frac{1}{5} = 1$$

$$\{-2, 0, 2, 43 = \frac{-2}{(-1)(-1)\cdot(-6)} + \frac{-5}{2\cdot(-2)(-5)} + \frac{2}{5\cdot2\cdot(-2)} + \frac{16}{6\cdot5\cdot2} >$$

STAMBTE VALENTIHI

$$\{-2,0,2,4\} = \frac{1}{24} + \frac{1}{5} - \frac{1}{8} + \frac{1}{3} = \frac{1-6-3+8}{25} = 0$$

$$L_{3}(x) = \frac{-2}{-2} + -2 - (x+2) + (x+2)x + 0$$

$$L_{3}(x) = -2 - (x+2) + (x+2)x$$

$$L_{3}(1) = -2 - 3 + 3 = -2$$