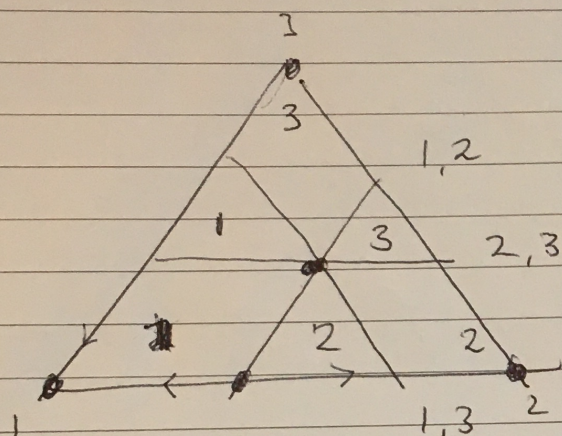


$$\begin{pmatrix} 2 & 0 & 1 \\ 1 & 2 & 0 \\ 0 & 1 & 2 \end{pmatrix}$$



M.E

x_i

$$2x_1 + x_3 = x_1 + x_2 \quad (1, 2)$$

$$x_1 + x_3 = x_2$$

$$x_1 + 2x_2 = x_2 + 2x_3 \quad (2, 3)$$

$$x_1 + x_2 = 2x_3$$

$$2x_1 + x_3 = x_2 + 2x_3 \quad (1, 3)$$

$$2x_1 = x_2 + x_3$$

$$x = \frac{1}{3}h$$

$$(\hat{x} - x) A x$$

$$A\left(\frac{1}{3}h\right) = 1$$

$$\frac{1}{3} \begin{pmatrix} -\frac{1}{3}h_1 \\ -\frac{2}{3}h_2 \\ -\frac{1}{3}h_3 \end{pmatrix} \begin{pmatrix} 1 + \begin{pmatrix} 2h_1 + h_3 \\ h_1 + 2h_2 \\ h_2 + 2h_3 \end{pmatrix} \end{pmatrix}$$

-X