$$M_{2} = \begin{bmatrix} -3 & 1 & 1 \\ 0 & 1 & 1 \end{bmatrix}$$

$$R = \begin{bmatrix} \cos \theta & \sin \theta \\ -\sin \theta & \cos \theta \end{bmatrix}$$

A = M2 R

$$A = \begin{bmatrix} -3 & 1 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} -3\cos\theta - \sin\theta & -3\sin\theta + \cos\theta \\ -\sin\theta & \cos\theta \end{bmatrix}$$

$$B = \begin{bmatrix} \cos \theta & \sin \theta \\ -3\cos \theta & \cos \theta + \sin \theta \end{bmatrix}$$

$$\cos \theta$$

$$\cos \theta$$

B = RM2

$$\frac{1}{3} = \begin{bmatrix} 0.5 & 0 \\ 0.2 & 2 \end{bmatrix}$$

$$N_3 = \begin{bmatrix} 0.3 & 0 \\ 0 & 2 \end{bmatrix}$$

$$N_3 = \begin{bmatrix} 1/\sqrt{2} & -1/\sqrt{2} \\ -1/\sqrt{2} & -1/\sqrt{2} \end{bmatrix}$$

A ≠ B

 $0 = \begin{bmatrix} 1.25 & 0.75 \\ 0.75 & 1.25 \end{bmatrix} = M_4$

$$C = \frac{1}{3}\sqrt{3}$$

$$C = \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}}$$

$$C = \frac{1}{\sqrt{2}} -$$

H= V3 M3 [0.5 0]

[1/J2 -1/J2] [1/2J2 -2/J2] -1/J2 -1/J2] [-1/2J2 -2/J2]

$$D = V_3 C \qquad \begin{bmatrix} \frac{1}{2}\sqrt{2} & -\frac{1}{2}\sqrt{2} \\ -\frac{2}{\sqrt{2}} & -\frac{1}{2}\sqrt{2} \end{bmatrix}$$

CI in halved CII in doubled