

4)
$$\begin{bmatrix} .65 - 2 & 0 & 0 \\ .15 & .12 - 2 & 0 \\ 0 & .66 & 1 - 2 \end{bmatrix}$$

$$\begin{bmatrix} 2 & -1 & 2 & -2 & 10 \\ -2 & -2 & -2 & 2 \\ -2 & -2 & -2 & 2 \end{bmatrix}$$
According to the calculator,
$$V_{1} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \quad V_{2} = \begin{pmatrix} 0 \\ -1 \end{pmatrix} \quad V_{3} = \begin{pmatrix} -.63 \\ -.17 \\ 1 \end{pmatrix}$$

$$5) \quad T_{12}^{12} = \begin{pmatrix} 0 & 0 & -12 \\ 0 & 12 \\ 0 & 0 & .65 \end{pmatrix} \quad \begin{bmatrix} 1 & 0 & 0 \\ -120 & 0 & 0 \\ -120 & 0 & 0 \\ -120 & 0 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 0.14 & 0 & 0 \\ .03 & 0 & 0 \\ .03 & 1 & 1 \end{bmatrix} \quad \begin{bmatrix} 0 & 0 & -13 \\ 0 & .65 \\ 0 & .65 \end{bmatrix} \quad \begin{bmatrix} 0 & 0 & -13 \\ -120 & 0 & 0 \\ -130 & 0 & 0 \\ -130 & 0 & 0 \\ -130 & 0 & 0 \end{bmatrix}$$

6) Yes, Ith stabalized to

The matrix to a 4 by 4