$\begin{tabular}{ll} \begin{tabular}{ll} \beg$ 

$$A := \begin{bmatrix} 2 & 1 & 2 \\ 4 & 2 & 4 \\ 2 & 1 & 2 \end{bmatrix}$$
 (1)

$$J, Q := \begin{bmatrix} 0 & 0 & 0 \\ 0 & 6 & 0 \\ 0 & 0 & 0 \end{bmatrix}, \begin{bmatrix} -\frac{1}{3} & \frac{1}{3} & -1 \\ -\frac{2}{3} & \frac{2}{3} & 0 \\ \frac{2}{3} & \frac{1}{3} & 1 \end{bmatrix}$$
 (2)