

③

As comparing both the outputs  
the output obtained by solving manually  
is

$$\begin{pmatrix} 0.4 & 0 & 0 & 0 & 0 \\ 0 & 0.2 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 0.63 \\ 0 & 0 & 1 & 1 & 0 \\ 0.35 & 0 & 0 & 0 & 0.7 \end{pmatrix}$$

The output obtained after solving it on  
matlab is

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