



$$V(s) = R(s) + 0.9TV(s)$$

$$V(s) = \begin{bmatrix} 0 \\ 10 \\ 27 \end{bmatrix} + 0.9 \begin{bmatrix} 0.7 & 0.4 & 0.2 \\ 0.1 & 0.4 & 0.2 \\ 0.2 & 0.2 & 0.6 \end{bmatrix} V(s)$$

$$V(s) = (I - \gamma T)^{-1} R(s)$$

$$V(s) = \left(\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} - 0.9 \begin{bmatrix} 0.7 & 0.4 & 0.2 \\ 0.1 & 0.4 & 0.2 \\ 0.2 & 0.2 & 0.6 \end{bmatrix} \right)^{-1} \begin{bmatrix} 0 \\ 10 \\ 27 \end{bmatrix}$$

$$V(s) = \begin{bmatrix} 97.14 \\ 43.06 \\ 113.55 \end{bmatrix}$$