

# Assignment 2

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**Problem 1.**

$$R = \begin{bmatrix} 2 & 1 & 0.75 & 0.5 & 0.25 \\ 1 & 2 & 1 & 0.75 & 0.5 \\ 0.75 & 1 & 2 & 1 & 0.75 \\ 0.5 & 0.75 & 1 & 2 & 1 \\ 0.25 & 0.5 & 0.75 & 1 & 2 \end{bmatrix}$$

*Proof.*

□

**Problem 2.**

$$P = \begin{bmatrix} 0.5 \\ 0.25 \\ 0.125 \\ 0.0625 \\ 0.03125 \end{bmatrix}$$

*Proof.*

□