Problem 2

Let
$$\overrightarrow{T} = \begin{bmatrix} T_1 \\ T_2 \\ T_3 \end{bmatrix}$$

$$\begin{bmatrix} T_1 & T_2 & T_3 \end{bmatrix} \begin{bmatrix} 0.2 & 0.7 & 0.1 \\ 0.2 & 0.5 & 0.3 \\ 0.2 & 0.4 & 0.4 \end{bmatrix}$$

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$$O.2T_1 + 0.2T_2 + 0.2T_3 = TT,$$
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$$0.7\pi, + 0.5\pi_2 + 0.4\pi_3 = \pi_2$$

$$0.1\pi_1 + 0.3\pi_2 + 0.4\pi_3 = \pi_3$$

$$3$$

In the code, I instead solve for the eigenvector of PT corresponding b λ=1.