DATE: . . .

$$(\pi_0, \pi_1, \pi_2) = (\pi_0, \pi_1, \pi_2) \cdot P$$
 and  $\sum_{j=0}^{2} \pi_j = 1$ 



$$\begin{pmatrix} -0.2\pi_{6} + 0.25\pi_{1} + 6.15\pi_{2} = 0 \\ 0.15\pi_{6} - 0.3\pi_{1} + 0.05\pi_{2} = 0 \\ \pi_{0} + \pi_{1} + \pi_{2} = 1 \end{pmatrix}$$

$$A = \begin{bmatrix} -0.2 & 0.25 & 0.15 \\ 0.15 & -0.3 & 0.05 \end{bmatrix} \qquad X = \begin{bmatrix} \pi_0 \\ \pi_1 \end{bmatrix} \qquad b = \begin{bmatrix} 0 \\ 0 \\ \end{bmatrix}$$

$$x = A^{-1}b = \begin{bmatrix} 0.5111 \\ 0.2888 \\ 0.2 \end{bmatrix}$$