

$$\text{Let } A = \begin{bmatrix} 75/100 & 15/100 & 5/100 \\ 15/100 & 80/100 & 10/100 \\ 10/100 & 5/100 & 85/100 \end{bmatrix} \text{ and}$$

$$P = \begin{bmatrix} 1 & -1 & -1 \\ -1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$$

Find the eigenvalues and corresponding eigenvectors for

$$A, \text{ rref}(A), \text{ and } B = P^{-1}AP$$