

Eigenvalue of matrix #4

Find the eigenvalues and eigenvectors of \mathbf{A}^{-1} and $\mathbf{A} - 4\mathbf{I}$ where \mathbf{I} is identity matrix and \mathbf{A} is:

$$\mathbf{A} = \begin{bmatrix} 2 & -1 \\ -1 & 2 \end{bmatrix}$$

Your answer should have the eigenvalues of \mathbf{A}^{-1} followed by eigenvalues of $\mathbf{A} - 4\mathbf{I}$ each on a new line (with the smaller value coming first, for each pair):

5
6
2
3