Eigenvalue of matrix #4

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

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

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

```
5
6
2
3
```