Result

You entered matrix

$$A = \begin{bmatrix} \frac{2}{9} & \frac{1}{9} & -\frac{2}{9} \\ \frac{1}{9} & \frac{2}{9} & -\frac{1}{9} \\ -\frac{2}{9} & -\frac{1}{9} & \frac{2}{9} \end{bmatrix}$$

The eigenvalues and eigenvectors of matrix A are:

Eigenvalue]	Eigenvector			
$-\frac{\sqrt{3}-3}{9}$		1 $-\sqrt{3}-1$ -1			
$\frac{\sqrt{3}+3}{9}$		$ \begin{array}{ c c c } \hline 1 \\ \sqrt{3} - 1 \\ \hline -1 \\ \end{array} $			<u> </u>
0			1 0		