MATHEMATICS 2

Friday April 13 2018

Weekly test number 5

Determine the eigenvalues, the eigenvectors and the multiplicities of the following matrix. Is the matrix diagonalisable?

$$A = \begin{pmatrix} 2 & -1 & -1 \\ 0 & -2 & 0 \\ 0 & 0 & -2 \end{pmatrix}$$