

2. [Maximum mark: 7]

Let $A = \begin{pmatrix} 2 & 3 \\ 1 & 4 \end{pmatrix}$

- (a) Find the eigenvalues of matrix A . [3]
- (b) Find the corresponding eigenvectors. [4]

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3. [Maximum mark: 7]

Let $A = \begin{pmatrix} 2 & 0 \\ 1 & 4 \end{pmatrix}$

- (a) Find the eigenvalues of matrix A . [3]
- (b) Find the corresponding eigenvectors. [4]

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