

Q1 (i)

$$(a) u = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \quad v = \begin{pmatrix} 4 \\ 1 \end{pmatrix} \quad (b) u = \begin{pmatrix} 3 \\ 3 \end{pmatrix} \quad v = \begin{pmatrix} -3 \\ 3 \end{pmatrix}$$

$$(c) u = \begin{pmatrix} 5 \\ 2 \end{pmatrix} \quad v = \begin{pmatrix} -4 \\ 2 \end{pmatrix} \quad (d) u = \begin{pmatrix} -3 \\ 2 \end{pmatrix} \quad v = \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

$$(e) u = \begin{pmatrix} 1 \\ 4 \end{pmatrix} \quad v = \begin{pmatrix} 3 \\ -2 \end{pmatrix} \quad (f) u = \begin{pmatrix} 3 \\ 4 \end{pmatrix} \quad v = \begin{pmatrix} 4 \\ 3 \end{pmatrix}$$

$$(g) u = \begin{pmatrix} 6 \\ 2 \end{pmatrix} \quad v = \begin{pmatrix} 1 \\ -2 \end{pmatrix} \quad (h) u = \begin{pmatrix} 2 \\ -4 \end{pmatrix} \quad v = \begin{pmatrix} 4 \\ -1 \end{pmatrix}$$

$$(i) u = \begin{pmatrix} 0 \\ 4 \end{pmatrix} \quad v = \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$