June 2019 Paper 2H Question 14

1   Here are two vectors.

$$\overrightarrow{AB} = \begin{pmatrix} 6 \\ -9 \end{pmatrix} \qquad \overrightarrow{CB} = \begin{pmatrix} 1 \\ 3 \end{pmatrix}$$

Find the magnitude of $\overrightarrow{AC}$

(3 marks)

Sample Paper 2H Question 23

2   *ABCD* is a parallelogram

$$\overrightarrow{AB} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \qquad \overrightarrow{AC} = \begin{pmatrix} 9 \\ 4 \end{pmatrix}$$

Find the magnitude of $\overrightarrow{BC}$

(3 marks)

January 2019 Paper 2H Question 23

3   *ABCD* is a trapezium

$$\overrightarrow{DC} = 3\overrightarrow{AB}$$

$$\overrightarrow{DA} = \begin{pmatrix} -2 \\ 3 \end{pmatrix} \qquad \overrightarrow{DB} = \begin{pmatrix} -1 \\ 7 \end{pmatrix}$$

Find the exact magnitude of $\overrightarrow{BC}$

(5 marks)

Grade 7   IGCSE Vectors   Grade 7