

# MEI Core 4

## Vectors

### Chapter Assessment

1. Find:

(i)  $2\begin{pmatrix} 1 \\ 4 \end{pmatrix} + \begin{pmatrix} 3 \\ -1 \end{pmatrix}$  [2]

(ii)  $\begin{pmatrix} 2 \\ -3 \end{pmatrix} \cdot \begin{pmatrix} 2 \\ 4 \end{pmatrix}$  [2]

(iii)  $\begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix} \cdot \begin{pmatrix} -1 \\ 3 \\ 2 \end{pmatrix}$  [2]

2. (i) Work out the angle between the vectors:

(a)  $\begin{pmatrix} 2 \\ -1 \end{pmatrix}$  and  $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$  [3]

(b)  $\begin{pmatrix} 2 \\ 1 \\ 4 \end{pmatrix}$  and  $\begin{pmatrix} 1 \\ -2 \\ 3 \end{pmatrix}$  [3]

(ii) Show that the lines  $\mathbf{r} = \begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 4 \end{pmatrix}$  and  $\mathbf{r} = \begin{pmatrix} -1 \\ 3 \\ 2 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ -5 \\ 3 \end{pmatrix}$  are perpendicular to each other. [3]

3. The points A, B and C have coordinates (2, -1), (3, 2) and (-4, 0) respectively.

(i) Write down the vectors  $\overrightarrow{AB}$ ,  $\overrightarrow{AC}$  and  $\overrightarrow{BC}$ . [3]

(ii) Find  $|\overrightarrow{BC}|$ . [2]

(iii) Find  $\angle ABC$ . [3]

4. (i) Find the vector equation of the line joining A(2, -1, 0) to B(3, -2, -5). [3]

(ii) Verify that A and B both lie on the plane  $2x - 3y + z = 7$ . [2]

(iii) Write down the vector equation of the line passing through A which is perpendicular to the plane. [2]

5. The points A, B and C have coordinates (2, -1, 3), (4, -2, 0) and (1, -5, 0) respectively.

# Mei M1 Vectors Chapter Assessment Answers

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