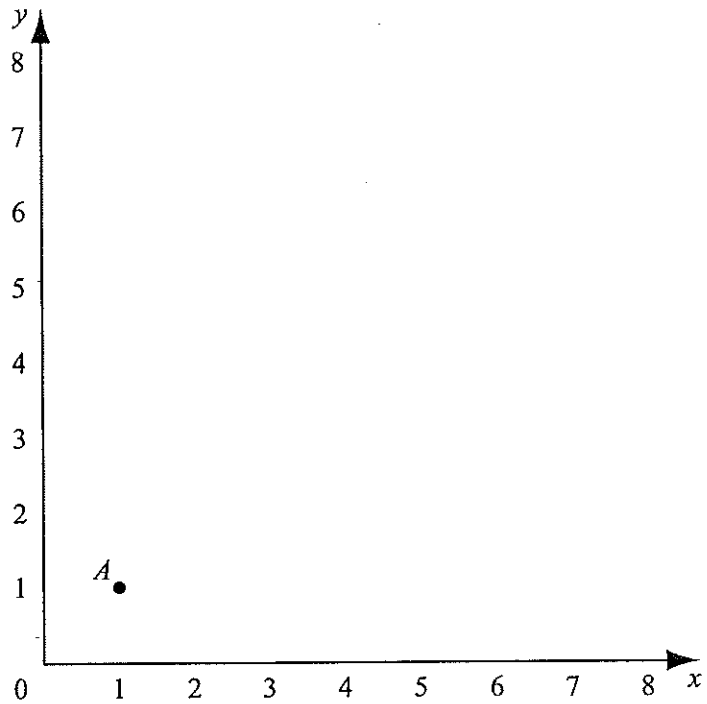
IGCSE – Vectors Paper 2 - 2

Oct 04 Paper 2

21



(a) Using a scale of 1cm to represent 1 unit, draw the vectors

$\overrightarrow{AB} = \begin{pmatrix} 3 \\ 5 \end{pmatrix}$ and $\overrightarrow{BC} = \begin{pmatrix} 4 \\ 0 \end{pmatrix}$ on the grid above. [2]

(b) *ABCD* is a parallelogram.
Write down the coordinates of *D*.

Answer(b) (.....,.....) [2]

(c) Calculate $|\overrightarrow{AB}|$.

Answer(c) ..... [2]

Oct 05 Paper 2

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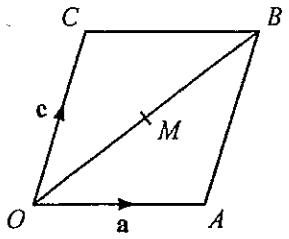

OABC is a parallelogram. $\overrightarrow{OA}$ = **a** and $\overrightarrow{OC}$ = **c**.
M is the mid-point of *OB*.
Find $\overrightarrow{MA}$ in terms of **a** and **c**.

Answer $\overrightarrow{MA}$ = ... [2]