

CIE IGCSE MATHS

17 (a) (i) $\mathbf{m} = \begin{pmatrix} 5 \\ 7 \end{pmatrix}$

Find $3\mathbf{m}$.

$$3\mathbf{m} = 3 \begin{pmatrix} 5 \\ 7 \end{pmatrix}$$

$$3\mathbf{m} = \begin{pmatrix} 3 \times 5 \\ 3 \times 7 \end{pmatrix}$$

$$3\mathbf{m} = \begin{pmatrix} 15 \\ 21 \end{pmatrix}$$

$$\begin{pmatrix} 15 \\ 21 \end{pmatrix} \quad [1]$$

(ii) $\overrightarrow{VW} = \begin{pmatrix} 10 \\ -24 \end{pmatrix}$

Find $|\overrightarrow{VW}|$.

$$|\overrightarrow{VW}| = \sqrt{(10)^2 + (-24)^2}$$

$$|\overrightarrow{VW}| = 26$$

26

[2]

(b)



NOT TO SCALE

$OACB$ is a parallelogram.

$\overrightarrow{OA} = \mathbf{p}$ and $\overrightarrow{OC} = \mathbf{q}$.

E is the point on AB such that $AE : EB = 3 : 1$.

Find $\overrightarrow{OE}$, in terms of $\mathbf{p}$ and $\mathbf{q}$, in its simplest form.

$$\overrightarrow{OE} = \overrightarrow{OA} + \overrightarrow{AE}$$

$$\overrightarrow{OE} = \overrightarrow{OA} + \frac{3}{4} \overrightarrow{AB}$$

$$\overrightarrow{OE} = \overrightarrow{OA} + \frac{3}{4} (\overrightarrow{AO} + \overrightarrow{OC} + \overrightarrow{CB})$$

$$\overrightarrow{OE} = \mathbf{p} + \frac{3}{4} (-\mathbf{p} + \mathbf{q} + \mathbf{p})$$

$$\overrightarrow{OE} = \mathbf{p} + \frac{3}{4} \mathbf{q}$$

$$\overrightarrow{OE} = \mathbf{p} + \frac{3}{4} \mathbf{q} \quad [2]$$

Igcse Question Papers Maths

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