

CIE IGCSE MATHS

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

Find $3m$.

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

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

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

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

(ii) $\vec{vw} = \begin{pmatrix} 10 \\ -24 \end{pmatrix}$

Find $|\vec{vw}|$.

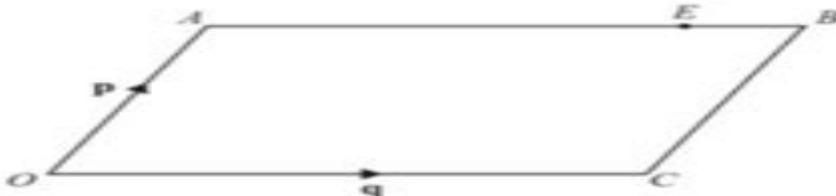
$$|\vec{vw}| = \sqrt{(10)^2 + (-24)^2}$$

$$|\vec{vw}| = 26$$

..... 26

[2]

(b)



NOT TO SCALE

$OACB$ is a parallelogram.

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

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

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

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

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

$$\vec{OE} = \vec{OA} + \frac{3}{4} (\vec{AB} + \vec{OC} + \vec{CB})$$

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

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

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

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Lei Huang



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