

# 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.

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

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

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

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

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

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

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**Sai Gopal Sunkara**



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