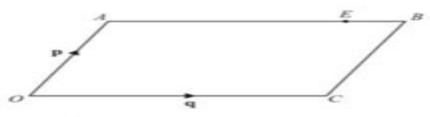
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17 (a) (i)
$$\mathbf{m} = \begin{pmatrix} 5 \\ 7 \end{pmatrix}$$
 $3\mathbf{m} = 3 \begin{pmatrix} 5 \\ 4 \end{pmatrix}$
Find 3m. $3\mathbf{m} = \begin{pmatrix} 3 \times 5 \\ 3 \times 7 \end{pmatrix}$

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

26 [2]

(b)



NOT TO SCALE

OABC is a parallelogram.

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

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

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

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

$$\overrightarrow{OE} = \overrightarrow{OA} + \overset{?}{+} \overrightarrow{AB}$$

$$\overrightarrow{OE} = \overrightarrow{OA} + \overset{?}{+} (\overrightarrow{AB} + \overrightarrow{OC} + \overrightarrow{CE})$$

$$\overrightarrow{OE} = P + \overset{?}{+} (-P + q + P)$$

$$\overrightarrow{OE} = P + \frac{3}{4}q$$
 [2

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