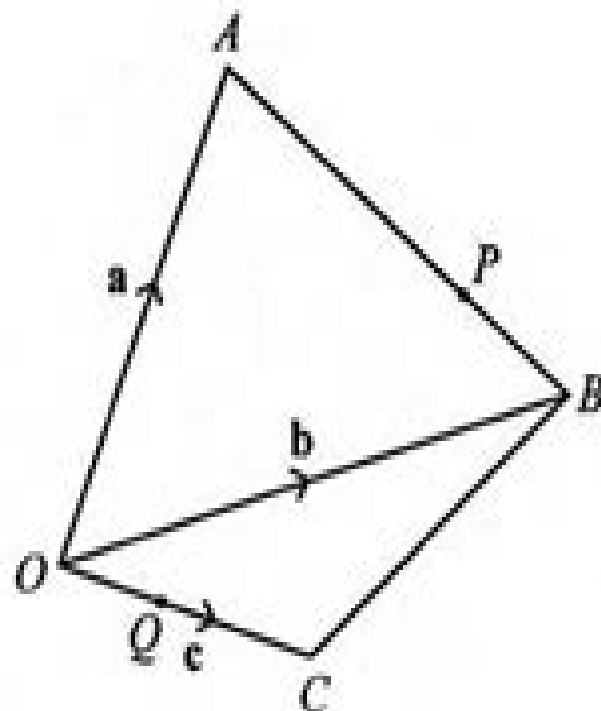




The figure shows points A , B and C with position vectors $\mathbf{a}$, $\mathbf{b}$ and $\mathbf{c}$ respectively, relative to an origin O . The point P lies on AB such that $AP:AB = 3:4$. The point Q lies on OC such that $OQ:QC = 2:3$.

(i) Express $\overrightarrow{AP}$ in terms of $\mathbf{a}$ and $\mathbf{b}$ and hence show that $\overrightarrow{OP} = \frac{1}{4}(\mathbf{a} + 3\mathbf{b})$. [3]

(ii) Find $\overrightarrow{PQ}$ in terms of $\mathbf{a}$, $\mathbf{b}$ and $\mathbf{c}$. [3]

(iii) Given that $5\overrightarrow{PQ} = 6\overrightarrow{BC}$, find $\mathbf{c}$ in terms of $\mathbf{a}$ and $\mathbf{b}$. [2]

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