



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 $AP:PB = 3:1$. 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]

June 2013 Maths Paper

JG Myers



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