**24**

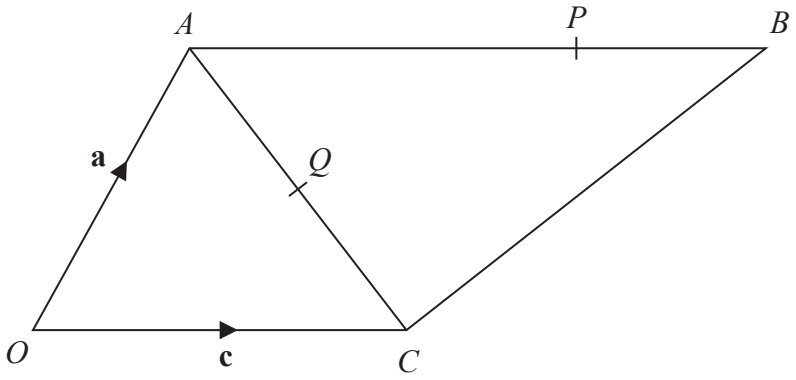



Diagram **NOT** accurately drawn

$\overrightarrow{OA} = \mathbf{a}$ $\overrightarrow{OC} = \mathbf{c}$ $\overrightarrow{AB} = 2\mathbf{c}$

$P$ is the point on $AB$ such that $AP : PB = 3 : 1$
$Q$ is the point on $AC$ such that $OQP$ is a straight line.

Use a vector method to find $AQ : QC$
Show your working clearly.

$AQ : QC =$ .....

**(Total for Question 24 is 5 marks)**

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA
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