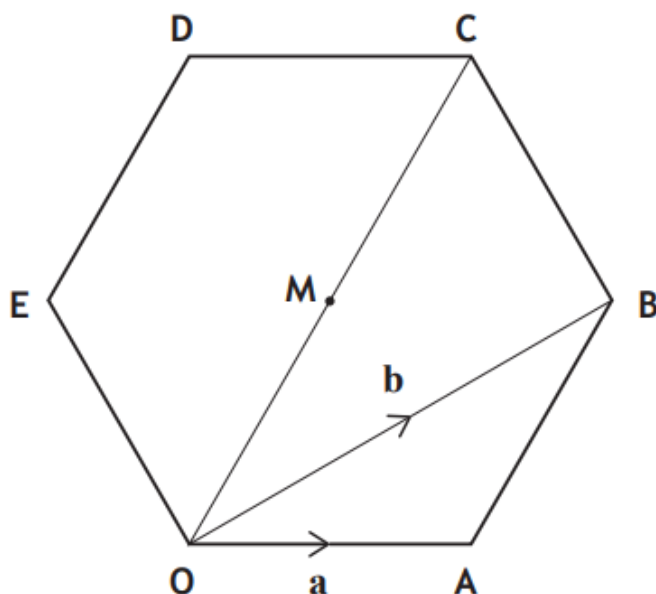




In the diagram, OABCDE is a regular hexagon with centre M.

Vectors \mathbf{a} and \mathbf{b} are represented by \overrightarrow{OA} and \overrightarrow{OB} respectively.



(a) Express \overrightarrow{AB} in terms of \mathbf{a} and \mathbf{b} . 1

(b) Express \overrightarrow{OC} in terms of \mathbf{a} and \mathbf{b} . 1

Answers:

(a) $\underline{\mathbf{b}} - \underline{\mathbf{a}}$ (or equivalent)

(b) $2(\underline{\mathbf{b}} - \underline{\mathbf{a}})$ or $2\underline{\mathbf{b}} - 2\underline{\mathbf{a}}$ (or equivalent)