22 *ABCDEF* is a regular hexagon.

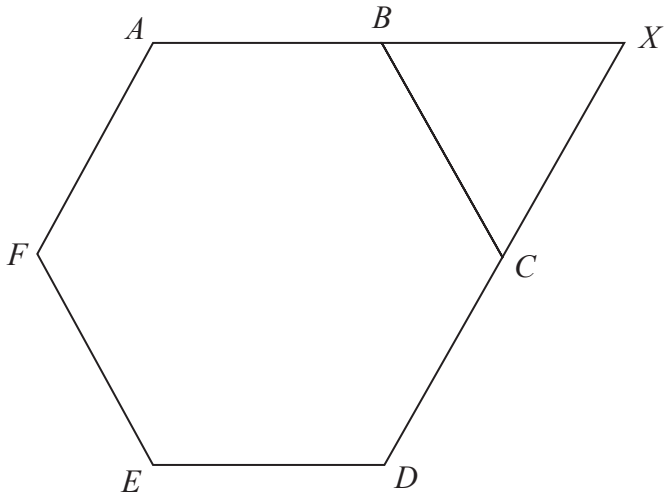


Diagram **NOT** accurately drawn

ABX and *DCX* are straight lines.

$\overrightarrow{AB} = \mathbf{a}$ $\overrightarrow{BC} = \mathbf{b}$

Find $\overrightarrow{EX}$ in terms of **a** and **b**.
Give your answer in its simplest form.

(Total for Question 22 is 4 marks)

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