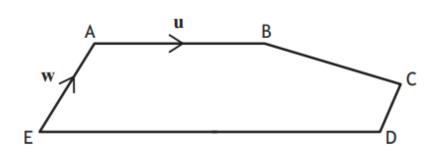
## National 5 Maths SQA 2018 Paper 2 Question 10



2

In the diagram below,  $\overrightarrow{AB}$  and  $\overrightarrow{EA}$  represent the vectors **u** and **w** respectively.



- $\overrightarrow{ED} = 2\overrightarrow{AB}$
- $\overrightarrow{EA} = 2\overrightarrow{DC}$

Express  $\overrightarrow{BC}$  in terms of **u** and **w**. Give your answer in its simplest form.

Answer:

 $\underline{u} - \frac{1}{2} \underline{w}$