

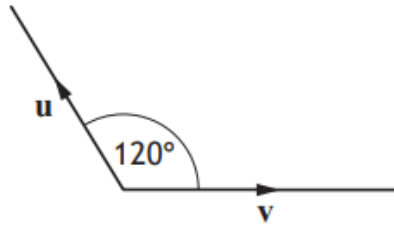
Higher Maths  
SQA 2021 Paper 1  
Question 14



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The angle between vectors  $\mathbf{u}$  and  $\mathbf{v}$  is  $120^\circ$ .

$|\mathbf{u}| = 4$  and  $|\mathbf{v}| = 5$ .



Calculate  $\mathbf{u} \cdot (\mathbf{u} + \mathbf{v})$ .

3

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Answer: 6