

Higher Maths
SQA 2019 Paper 2
Question 14



The vectors \mathbf{u} and \mathbf{v} are such that

- $|\mathbf{u}| = 4$
- $|\mathbf{v}| = 5$
- $\mathbf{u} \cdot (\mathbf{u} + \mathbf{v}) = 21$

Determine the size of the angle between the vectors \mathbf{u} and \mathbf{v} .

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Answer:

$75.5\dots^\circ$ or $1.31\dots$ radians