

Advanced Higher Maths
SQA 2021 Paper 1
Question 4

A system of equations is given by

$$\begin{aligned}x + 2y + z &= 5 \\3x - y + 2z &= 4 \\-2x + 3y + \lambda z &= -8\end{aligned}$$

where $\lambda \in \mathbb{R}$.

Use Gaussian elimination to determine the value of λ for which this system of equations has no solution.

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Answer:

-1