KUTAISI INTERNATIONAL UNIVERSITY

Quiz (G-1)

Linear Algebra for Informatics
Fall semester 2024
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Problem

Consider V, the set of all invertible 3×3 matrices

is V subspace of $R^{3\times 3}$?

Problem

Find a basis of the space of all 2×2 matrices A such that

$$A\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$$