Матн 124

Name:

Problem 1: Find a set that spans the subspace

$$\left\{ \begin{pmatrix} x\\ y\\ z\\ w \end{pmatrix} : 2x + y + w = 0 \text{ and } y + 2z = 0 \right\}$$

of \mathbb{R}^4 .

Hint: Start with solving the system of two equations 2x + y + w = 0 and y + 2z = 0.