

MATH 54 – SOLUTION TO 4.2.7

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It's not a subspace of \mathbb{R}^3 because $\mathbf{0} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ is not in it, since $0 + 0 + 0 = 0 \neq 2$.