KFUPM/ Department of Mathematics & Statistics
MATH 260-05/ 141/ Quiz 2

Name:
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1. Show that $V = \{(x, y, z) \in \mathbb{R}^3 |\ 3x + 4y = 5z\}$ is a subspace of $\mathbb{R}^3$.

2. Find the dimension of the solution space of the system $\begin{cases} x - 3y + 2z &= 0 \\ y + 4z &= 0 \\ 2x - 9y - 8z &= 0 \end{cases}$