KFUPM/ Department of Mathematics & Statistics
MATH 260-04/ 141/ Quiz 2

Name:
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1. Show that the vectors $u = (1, 0, -5)$, $v = (2, 3, 0)$, $w = (5, 6, -5)$ of $\mathbb{R}^3$ are linearly dependent.

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