estion 1. (5 marks) Determine whether the following is a subspace of $\mathcal{M}_{n \times n}$: The set of all $n \times n$ matrices such that $AB = BA$ for some fix n matrix B .	æd
stion 2. (5 marks) Let V be the solution space of the equation $4x - y + 2z = 0$, and let W be the subspace of \mathbb{R}^3 spanned by $(1,1,1)$. Fin or \vec{v} in V and a vector \vec{w} in W for which $\vec{v} + \vec{w} = (1,0,1)$.	d a

name: ___

Dawson College: Linear Algebra (SCIENCE): 201-NYC-05-S7: Fall 2022: Quiz 13

Books, watches, notes or cell phones are **not** allowed. The **only** calculators allowed are the Sharp EL-531**. You **must** show all your work, the correct answer is worth 1 mark the remaining marks are given for the work.