几昌 Quiz: Sections 4.3

Name: $\qquad$

Linear Algebra MATH 310
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Score: $\qquad$

Directions: Please answer in the space provided. No calculators. Please put all phones, etc., away.

1. Recall that $M_{2,2}$ is the set of all $2 \times 2$ matrices with entries from $\mathbb{R}$. Recall also that $M_{2,2}$ is a vector space whose addition (and scalar multiplication) is just the regular addition (and scalar multiplication) for matrices.

Let $W$ be the set of $2 \times 2$ matrices whose entries add up to 0 . Show that $W$ is a subspace of $M_{2,2}$.

