🕼 Quiz: Sections 4.3	Linear Algebra	October 13, 2016
	MATH 310	
Name:	R. Hammack	Score:

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  $M_{2,2}$ .