Linear algebra notes

Theorem: 1. Let $A \in M_{m\times n}(\mathbb{R})$ and $x \in \mathbb{R}^n$ Then $Ax = 0$ is consistent.

Theorem: 2. Let $A \in M_{m\times n}(\mathbb{R})$ and $x \in \mathbb{R}^n$ Then $Ax = 0$ is consistent.