

Linear Algebra Done Wrong Solutions

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1 Chapter 1: Basic Notions

1.1 Vector Spaces

- 1.
2. (a) Yes
(b) No, because of multiplication by a non-negative scalar.
(c) Yes
(d) uhh
3. (a) Yes
(b) Suppose 0 and $0'$ are two zero vectors in a vector space. Then,
 $0 + 0' = 0 = 0'$.
(c) True, duhh
(d) True
(e) True
- 4.
5. $\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$
6. Suppose a vector v in a vector space has two additive inverses: v' and v'' .
Then, $v + v' = v + v'' = 0$