Source:

1 | Definitions

1.1 | Linear Map

A linear map is a function/map from one vector space to another such that it satisfies the properties of additivity and homogeneity. Notationally, a linear map $T \in \mathcal{L}(V,W)$ satisfies $T(a)+T(b)=T(a+b): a,b \in V$ and $\lambda Ta=T(\lambda a): \lambda \in \mathbb{F}, a \in V$

1.2 | Null Space

The null space of a linear map is the space of vectors that are sent to 0 by T, aka $\{v:v\in V \land Tv=0\}$

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