

Chapter 3

Linear Transformations

Linear transformations are linear maps and, as such, are subject to the same properties as linear maps. The concept of a linear transformation is a generalization of the concept of a linear map. In this chapter we study the theory of linear transformations and its applications to various fields of mathematics. The principal applications of linear transformations are in the study of linear systems, the study of linear maps, and the study of linear transformations. The principal applications of linear transformations are in the study of linear systems, the study of linear maps, and the study of linear transformations.

3.1 Definition and Examples

Let V and W be vector spaces over the field F . A linear transformation T from V to W is a function $T: V \rightarrow W$ such that $T(v + w) = T(v) + T(w)$ and $T(cv) = cT(v)$ for all $v, w \in V$ and $c \in F$.

Example 1. Let $V = \mathbb{R}^2$ and $W = \mathbb{R}^2$. Define $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ by $T(x, y) = (x, y)$. Then T is a linear transformation. For instance, $T(v + w) = T(v) + T(w)$ and $T(cv) = cT(v)$ for all $v, w \in \mathbb{R}^2$ and $c \in \mathbb{R}$. For example, $T(2v) = 2T(v)$ and $T(v + w) = T(v) + T(w)$. We will see later that the linear transformations that satisfy the "linearity" conditions are called linear transformations.

Example 2. Let $V = \mathbb{R}^2$ and $W = \mathbb{R}^2$. Define $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ by $T(x, y) = (y, x)$. Then T is a linear transformation. For instance, $T(v + w) = T(v) + T(w)$ and $T(cv) = cT(v)$ for all $v, w \in \mathbb{R}^2$ and $c \in \mathbb{R}$. For example, $T(2v) = 2T(v)$ and $T(v + w) = T(v) + T(w)$. This particular function satisfies the "linearity" conditions and, as such, is called a linear transformation from \mathbb{R}^2 to \mathbb{R}^2 .

Definition 3.1. Let V and W be vector spaces. A linear transformation T from V to W is called a linear transformation if it satisfies the following two conditions:

1. $T(v + w) = T(v) + T(w)$ for all $v, w \in V$.

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