

Chapter 3

Linear Transformations

Linear transformations are functions that map vectors to vectors. They are used to describe rotations, reflections, and other geometric transformations. In this chapter, we will explore the properties of linear transformations and how they can be represented by matrices. We will also see how linear transformations can be used to solve systems of linear equations and to find the inverse of a matrix.

3.1 Definition and Examples

A linear transformation T from a vector space V to a vector space W is a function that satisfies the following properties:

Example 1: Let T be a linear transformation from \mathbb{R}^2 to \mathbb{R}^2 . Define $T(x, y) = (2x, 3y)$. This is a linear transformation because it satisfies the properties of linearity. For example, $T(2x, 2y) = (4x, 6y) = 2(2x, 3y) = 2T(x, y)$. This shows that T is a linear transformation.

Example 2: Let T be a linear transformation from \mathbb{R}^2 to \mathbb{R}^2 . Define $T(x, y) = (y, x)$. This is a linear transformation because it satisfies the properties of linearity. For example, $T(2x, 2y) = (2y, 2x) = 2(y, x) = 2T(x, y)$. This shows that T is a linear transformation.

Definition 3.1: A linear transformation T from a vector space V to a vector space W is called a linear transformation if it satisfies the following properties:

$$T(u + v) = T(u) + T(v) \quad \text{and} \quad T(cu) = cT(u)$$

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Katrin Zwirgmaier



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