

Starting From \mathbb{R}^n to \mathbb{C}^n

Special Note: This assignment is due on **Wednesday**.
Prerequisite: Differential Equations and Complex Analysis (Strongly recommended).
Prerequisite: Matrix Algebra (strongly recommended).
Prerequisite: Fourier Analysis (strongly recommended).
Prerequisite: Complex Analysis (strongly recommended).

1.1. \mathbb{R}^n to \mathbb{C}^n

Consider the map $f: \mathbb{R}^n \rightarrow \mathbb{R}^n$ defined by $f(x) = Ax$ where A is a real $n \times n$ matrix. We will study the map f and its properties. We will also study the map f and its properties.

Let $f: \mathbb{R}^n \rightarrow \mathbb{R}^n$ be a linear map. We will study the map f and its properties. We will also study the map f and its properties.

1.2. \mathbb{R}^n to \mathbb{C}^n

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