

# 1.1. Introduction of Linear Algebra

January 21, 2017

## 1 Terminology

vector

matrix

linear equations

eigenvalue

determinant of matrices

vector/linear spaces inner product linear transformation

## 2 What is Linear Algebra?

Linear Algebra is about vectors and matrices, includes functions called linear transformation defined on vectors.

Vectors and matrices are derive from systems of linear equations.

Vector/Linear space is derive from vectors.

Linear transformation is derive from matrices.