

# Linear Algebra

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## 1

**Definition 1.1** (Linear Equation).

**Definition 1.2** (Linear Combination).

**Definition 1.3** (Gaussian Elimination).

**Definition 1.4** (Basis).

**Definition 1.5** (Subspace).

**Definition 1.6** (Span).

**Definition 1.7** (System of Equation).

**Definition 1.8** (Linear Dependence/Independence).

## 2

**Definition 2.1** (Inverse). Take some matrix  $A$ . Then, the i