

Linear Algebra 1.1 Systems of Linear Equations

- Linear equation
- System of linear equation
- Solution to a system/ solution set
- Inconsistent system
- Consistent system
- Equivalent systems
 - 3 operations
- Strict triangular form
- Back substitution
- Coefficient matrix
- Augmented matrix
- Elementary row operations
- Pivotal row
- Pivot

Linear Algebra 1.2 Row Echelon Form

- Staircase or echelon form
- Lead variables
- Free variables
- Gaussian elimination
- Overdetermined
- Underdetermined
- Reduced row echelon form
- Gauss-Jordan reduction
- Homogeneous

Linear Algebra 1.3 Matrix Algebra

- Scalars
- Vector
- Row vector
- Column vector
- Euclidean n -space
- Equality
- Scalar multiplication
- Matrix addition
- Scalar product
- Linear combination
- Consistency Theorem for linear systems
- Matrix multiplication
- Theorem 1.3.2
- Identity matrix
- Nonsingular/invertible
- Multiplicative inverse
- Singular
- Theorem 1.3.3
- Transpose
- Algebraic Rules for Transposes
- Symmetric