3 Lecture - Systems of Linear Equations II.

- Elementary Row Operations,

  - three elementary row operations,
  - row reduction,
  - pivot, pivoting,
  - row echelon form is not unique,
  - row elementary operations are reversible,
  - row equivalent matrices,

- Gaussian Elimination

- leading variables, free variables,

- rank, The Rank Theorem,

- Gauss-Jordan Elimination,

  - reduced row echelon form is unique,
  - reduced row echelon form,

- Homogeneous Systems,

- more variables than equations means infinitely many solutions for homogeneous systems.