

Linear systems

- Non-homogeneous
 - Inconsistent
 - Consistent
 - One solution
 - Infinite solutions
 - Homogeneous (always consistent)
 - One solution (trivial)
 - Infinite solutions (trivial and others)
 - Other solutions are expressed by the general solution

Trace: sum of the main diagonal Transpose:

- Symmetric:

$$a_{ij} = a_{ji}$$

Non-singular Matrices / Invertible singular Matrices / Non-invertible

Diagonal matrix and Triangular matrice