

Vectors

1 System of linear equations

1.4 Theorem (Gauss method) If a linear system is changed to another by one of these operations (1) an equation is swapped with another (2) an equation has both sides multiplied by a nonzero constant (3) an equation is replaced by the sum of itself and a multiple of another then the two systems have the same set of solutions.

2 Geometry of LE

3 Solution sets

Empty, line, plane, particular, homogenous