

§1.1 System of Linear Equations

A system of linear equations has

- No solution
- Exactly one solution
- Infinitely many solutions

Consistent – either one solution or infinitely many solutions

Inconsistent – no solution

Row Operations

- Interchange two rows
- Multiply all entries in a row by a nonzero constant
- Add to one row a multiple of another row

If the augmented matrices of two linear systems are row equivalent, then the two systems have the same solution set.