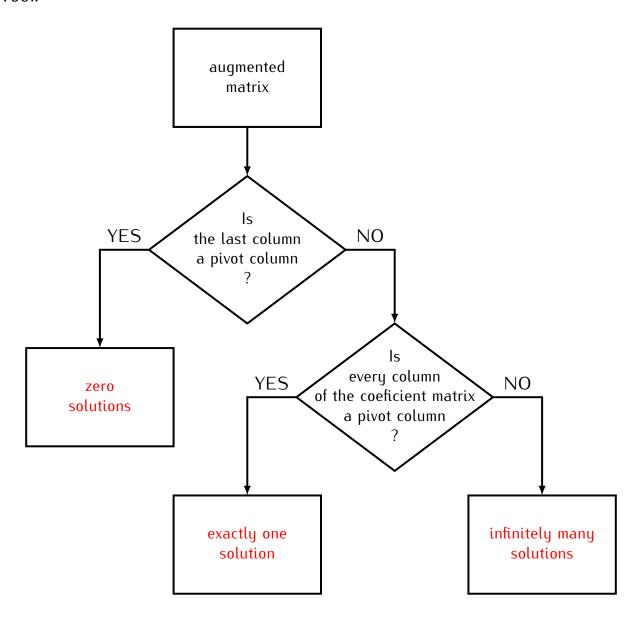
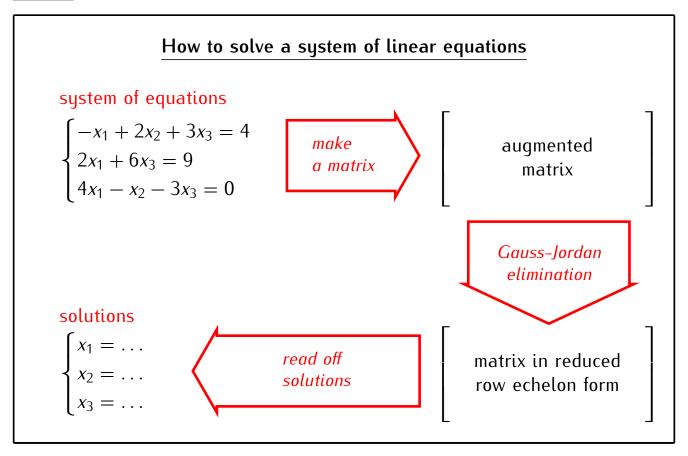
Theorem

A system of linear equations can have either 0, 1, or infinitely many solutions.

Proof.



Recall:



 $\underline{\text{Next:}}$ Some applications of systems of linear equations:

- Computations of traffic flow.
- Balancing chemical equations.
- Google PageRank.