
1 Systems of Linear Equations

Learning Outcomes

After completing this chapter, students should be able to do the following.

- Solve systems of linear equations using Gauss-Jordan elimination to reduce to echelon form.
- Interpret existence and uniqueness of solutions geometrically.
- Compute the rank of a matrix using Gaussian elimination.
- Implement Jacobi's method and the Gauss-Seidel method to solve linear systems.