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vector spaces linear combinations dimension basis linear functionals and linear equations linear equations abstractly matrices determinants linear transformations eigenvectors eigenvalues minimum polynomial jordan form quadratic form inner products the spectral theorem

this is a short text in linear algebra intended for a one term course in the first chapter lang discusses the relation between the geometry and the algebra underlying the subject and gives concrete examples of the notions which appear later in the book he then starts with a discussion of linear equations matrices and gaussian elimination and proceeds to discuss vector spaces linear maps scalar products determinants and eigenvalues the book contains a large number of exercises some of the routine computational type while others are conceptual

rigorous self contained coverage of determinants vectors matrices and linear equations quadratic forms more elementary easily readable account with numerous examples and problems at the end of each chapter

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introduction to the essential concepts of linear algebra concrete easy to understand examples m

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