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linear algebra is the branch of mathematics concerning linear equations such as linear maps such as and their representations in vector spaces and through matrices 1 2 3 linear algebra is central to almost all areas of mathematics

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course description this is a basic subject on matrix theory and linear algebra emphasis is given to topics that will be useful in other disciplines including systems of equations vector spaces determinants eigenvalues similarity and positive definite matrices

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linear algebra means roughly line like relationships let s clarify a bit straight lines are predictable imagine a rooftop move forward 3 horizontal feet relative to the ground and you might rise 1 foot in elevation the slope rise run 1 3 move forward 6 feet and you d expect a rise of 2 feet

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these linear algebra lecture notes are designed to be presented as twenty ve fty minute lectures suitable for sophomores likely to use the material for applications but still requiring a solid foundation in this fundamental branch

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linear algebra finally there is a chapter on the usefulness of linear algebra in the study of difference equations and linear ordinary differential equations this only uses real linear algebra there are three appendices the first is the summary of the notation used in the



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linear algebra is a branch of mathematics that deals with linear equations and their representations in the vector space using matrices in other words linear algebra is the study of linear functions and vectors it is one of the most central topics of mathematics most modern geometrical concepts are based on linear algebra

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