Algebra I - Advanced Linear Algebra (MA251) Lecture Notes

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<u>Algebra I Advanced Linear Algebra Ma251 Lecture Notes</u>

Frederick P. Greenleaf, Sophie Marques

Algebra I Advanced Linear Algebra Ma251 Lecture Notes:

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from this Occasionally formal calculational methods yield sharper results Moreover the results of linear algebra are not an end in themselves but are essentialtools for use in other branches of mathematics and its applications. It is therefore useful to have at hand methods which are constructive and which can be applied in numerical problems. These methods sometimes necessitate a somewhat lengthier discussion but we have felt that their presentation is justified on the grounds indicated A stu dent well versed in abstract algebra will undoubtedly observe short cuts. Some of these have been indicated in footnotes. We have included a large number of exercises in the text **Linear Algebra** Sterling K. Berberian, 2014-07-01 Introductory treatment covers basic theory of vector spaces and linear maps dimension determinants eigenvalues and eigenvectors plus more advanced topics such as the study of canonical forms for matrices 1992 edition **Numerical Linear Algebra** Rolf Rannacher, 2018 **Linear Algebra** I Frederick P. Greenleaf, Sophie Marques, 2019

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