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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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3 linear algebra is the branch of mathematics that focuses on the study of vectors vector spaces and linear transformations it deals with linear equations linear functions and their representations through matrices and determinants it has a wide range of application in physics and mathematics

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part 1 basic ideas of linear algebra 1 1 linear combinations of vectors 1 2 dot products  $v \cdot w$  and lengths  $|v|$  and angles  $\theta$  1 3 matrices multiplying vectors  $Ax = b$  1 4 column space and row space of  $A$  1 5 dependent and independent columns 1 6 matrix multiplication  $AB$  1 7 factoring  $A = CR$  column rank  $r$  row rank

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this course covers matrix theory and linear algebra emphasizing topics useful in other disciplines such as physics economics and social sciences natural sciences and engineering it parallels the combination of theory and

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linear algebra is an area of study in mathematics that concerns itself primarily with the study of vector spaces and the linear transformations between them linear algebra initially emerged as a method for solving systems of linear

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