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The tangent line to the curve of intersection at $(1,1,1)$ is the intersection of these two tangent planes. This will give us a linear approximation to the curve near $(1,1,1)$. Nonlinear systems such as in the above example are usually difficult to solve; their theory involves highly sophisticated mathematics.

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Introductory Linear Algebra, An Applied First Course", B. Kolman and D. Hill, Pearson 2001. Linear Algebra and Its Applications", David C. Lay, Addison{Weseley

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A First Course in Linear Algebra.pdf - A First Course in

This text, originally by K. Kuttler, has been redesigned by the Lyryx editorial team as a first course in linear algebra for science and engineering students who have an understanding of basic algebra. All major topics of linear algebra are available in detail, as well as proofs of important theorems.

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not emphasized that linear algebra can be carried out with any field although there is an optional section on this topic, most of the book being devoted to either the real numbers or the complex numbers. It seems to me this is a reasonable specialization for a first course in linear algebra. Linear algebra is a wonderful interesting subject.

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The first four axioms mean that V is an abelian group under addition.. Elements of a vector space may have various nature; for example, they can be sequences, functions, polynomials or matrices. Linear algebra is concerned with properties common to all vector spaces.

Linear algebra - Wikipedia

answers so that we can see these perspectives. First, linear algebra is the study of a certain algebraic structure called a vector space (BYU). Second, linear algebra is the study of linear sets of equations and their transformation properties. Finally, it is the branch of mathematics charged

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