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So this vector might be specified as $3, 4, 3, 4$. And you could use the Pythagorean theorem to figure out the actual length of this vector. And you'll see because this is a $3, 4, 5$ triangle, that this actually has a magnitude of 5. And as we study more and more linear algebra, we're going to start extending these to multiple dimensions.

Vector intro for linear algebra (video) | Khan Academy

vectors, how to take scalar and vector products of vectors, and something of how to describe geometric and physical entities using vectors. This course will remind you about that good stuff, but goes on to introduce you to the subject of Vector Calculus which, like it says on the can, combines vector algebra with calculus.

2A1VectorAlgebraandCalculus - University of Oxford

Vector calculus, or vector analysis, is a branch of mathematics concerned with differentiation and integration of vector fields, primarily in 3-dimensional Euclidean space. The term "vector calculus" is sometimes used as a synonym for the broader subject of multivariable calculus, which includes vector calculus as well as partial differentiation and multiple integration.

Vector calculus - Wikipedia

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Until the 19th century, linear algebra was introduced through systems of linear equations and matrices. In modern mathematics, the presentation through vector spaces is generally preferred, since it is more synthetic, more general (not limited to the finite-dimensional case), and conceptually simpler, although more abstract.. A vector space over a field F (often the field of the real numbers ...

Linear algebra - Wikipedia

Linearly dependence — A set of vectors is said to be linearly dependent if one of the vectors in the set can be defined as a linear combination of the others. Remark: if no vector can be written this way, then the vectors are said to be linearly independent.

CS 229 - Linear Algebra and Calculus refresher - stanford.edu

Chapter 7: Applications of Linear Algebra to Non-Linear Functions (PDF - 2.1MB) Textbook: The course makes reference to the out-of-print textbook cited below, but any newer textbook will suffice to expand on topics covered in the video lectures. Thomas, George B. Calculus and Analytic Geometry. Addison-Wesley, 1968. ISBN: 9780201075250.

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