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Calculus III. Here are my online notes for my Calculus III course that I teach here at Lamar University. Despite the fact that these are my "class notes", they should be accessible to anyone wanting to learn Calculus III or needing a refresher in some of the topics from the class.

Calculus III - Lamar University

This site is intended as a resource for university students in the mathematical sciences. Books are recommended on the basis of readability and other pedagogical value. Topics range from number theory to relativity to how to study calculus.

Books in the Mathematical Sciences

In the section we introduce the concept of directional derivatives. With directional derivatives we can now ask how a function is changing if we allow all the independent variables to change rather than holding all but one constant as we had to do with partial derivatives. In addition, we will define the gradient vector to help with some of the notation and work here.

Calculus III - Directional Derivatives

Lines and planes are perhaps the simplest of curves and surfaces in three dimensional space. They also will prove important as we seek to understand more complicated curves and surfaces.

12.5 Lines and Planes - Whitman College

A vector space (also called a linear space) is a collection of objects called vectors, which may be added together and multiplied ("scaled") by numbers, called scalars. Scalars are often taken to be real numbers, but there are also vector spaces with scalar multiplication by complex numbers, rational numbers, or generally any field. The operations of vector addition and scalar multiplication

Vector space - Wikipedia

Most of us last saw calculus in school, but derivatives are a critical part of machine learning, particularly deep neural networks, which are trained by optimizing a loss function. This article is an attempt to explain all the matrix calculus you need in order to understand the training of deep neural networks. We assume no math knowledge beyond what you learned in calculus 1, and provide ...

The Matrix Calculus You Need For Deep Learning

Online homework and grading tools for instructors and students that reinforce student learning through practice and instant feedback.

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Fourier Coefficients: Complex with Sound The coefficients in a Fourier series, when it is viewed as a sum of complex exponetials, are best thought of in terms of their magnitude and argument.

Courses: MIT Mathlets

Calculus (from Latin calculus, literally 'small pebble', used for counting and calculations, as on an abacus) is the mathematical study of continuous change, in the same way that geometry is the study of shape and algebra is the study of generalizations of arithmetic operations.. It has two major branches, differential calculus (concerning instantaneous rates of change and slopes of curves ...

Calculus - Wikipedia

The 19th Century saw an unprecedented increase in the breadth and complexity of mathematical concepts. Both France and Germany were caught up in the age of revolution which swept Europe in the late 18th Century, but the two countries treated mathematics guite differently.

19th Century Mathematics - The Story of Mathematics

of calculus or infinitesimal calculus, is a history of a mathematical discipline focused on limits, functions, derivatives, integrals, and infinite series. Isaac Newton and Gottfried Leibniz independently invented calculus in the mid-17th century. A rich history and cast of characters participating in the development of calculus both preceded and followed the contributions of these singular ...

History of calculus - Wikiquote

A Time-line for the History of Mathematics (Many of the early dates are approximates) This work is under constant revision, so come back later. Please report any errors to me at richardson@math.wichita.edu.

Math-History Timeline

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