

Mathematical Definition Of Derivative



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Derivative definition, derived. See more. In calculus, the slope of the tangent line to a curve at a particular point on the curve.

Derivative | Definition of Derivative at Dictionary.com

In mathematics, a function was originally the idealization of how a varying quantity depends on another quantity. For example, the position of a planet is a function of time. Historically, the concept was elaborated with the infinitesimal calculus at the end of the 17th century, and, until the 19th century, the functions that were considered were differentiable (that is, they had a high degree ...

Function (mathematics) - Wikipedia

In mathematics, a proof is an inferential argument for a mathematical statement. In the argument, other previously established statements, such as theorems, can be used. In principle, a proof can be traced back to self-evident or assumed statements, known as axioms, along with accepted rules of inference. Axioms may be treated as conditions that must be met before the statement applies.

Mathematical proof - Wikipedia

Synonyms for derivative at Thesaurus.com with free online thesaurus, antonyms, and definitions. Find descriptive alternatives for derivative.

Derivative Synonyms, Derivative Antonyms | Thesaurus.com

The natural logarithm $\ln x$ is the logarithm having base e , where $e=2.718281828\dots$ (1) This function can be defined $\ln x = \int_1^x \frac{1}{t} dt$ (2) for $x > 0$. This definition means that e is the unique number with the property that the area of the region bounded by the hyperbola $y=1/x$, the x -axis, and the vertical lines $x=1$ and $x=e$ is 1. In other words, $\int_1^e \frac{1}{x} dx = \ln e = 1$.

Natural Logarithm -- from Wolfram MathWorld

An inflection point is a point on a curve at which the sign of the curvature (i.e., the concavity) changes. Inflection points may be stationary points, but are not local maxima or local minima. For example, for the curve $y=x^3$ plotted above, the point $x=0$ is an inflection point. The first derivative test can sometimes distinguish inflection points from extrema for differentiable functions $f(x)$.

Inflection Point -- from Wolfram MathWorld

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Derivation definition, the act or fact of deriving or of being derived. See more.

Derivation | Definition of Derivation at Dictionary.com

in·te·gra·tion (in'tĭ-grā'shən) *n.* 1. a. The act or process of integrating. b. The state of becoming integrated. 2. The bringing of people of different racial or ethnic groups into unrestricted and equal association, as in society or an organization; desegregation. 3. Psychology The organization of the psychological or social traits and ...

Integration - definition of integration by The Free Dictionary

So what is the derivative, after all? We have discussed the notions of the derivative in many forms

and guises on these pages. Perhaps it is time for a summary of all these forms, and a simple statement of what, after all, the derivative "really is".

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