

Multivariable Calculus Edwards And Penney 6th Edition

Fundamental theorem of calculus Examples: Thomas's; Calculus 12th edition Edwards--Penney Calculus Early Transcendentals The fundamental theorem of calculus is a theorem that links the concept of differentiating a function (calculating its slopes, or rate of change at every point on its domain) with the concept of integrating a function (calculating the area under its graph, or the cumulative effect of small contributions). OpenStax. ISBN 978-1-947172-13-5. Roughly speaking, the two operations can be thought of as inverses of each other. Theorem of Calculus". Calculus: Volume 1 6fc01b4466

The first part of the theorem, the first fundamental theorem of calculus, states that for a continuous function f , an antiderivative or indefinite integral F can be obtained as the integral of f over an interval with a variable upper bound. 6fc01b4466 Conversely, the second part of the theorem, the second fundamental theorem of calculus, states that the integral of a function f over a fixed interval is equal to the change of any antiderivative F between the ends of the interval. This greatly simplifies the calculation of a definite integral provided an antiderivative can be found by symbolic integration, thus avoiding numerical integration. 6fc01b4466 == History == 6fc01b4466

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