

The Integral of a Complex Function

$$\text{Let } z = a + bi \quad \int e^{zx} dx = \int e^{(a+bi)x} dx = ?$$

$$\int e^{(a+bi)x} dx = \int e^{ax} \cdot e^{ibx} dx$$
$$= \frac{1}{a} e^{ax} e^{ibx} - \frac{ib}{a} \int e^{ax} \cdot e^{ibx} dx$$

$$\left(1 + \frac{ib}{a}\right) \int e^{ax} \cdot e^{ibx} dx = \frac{1}{a} e^{ax} e^{ibx}$$

$$\int e^{ax} \cdot e^{ibx} dx = \frac{\frac{1}{a} e^{ax} e^{ibx}}{\left(1 + \frac{ib}{a}\right)} = \frac{e^{zx}}{a + ib} = \frac{1}{z} e^{zx}$$

$$\int u dv = uv - \int u dv$$
$$u = e^{ibx} \quad dv = e^{ax} dx$$
$$du = ib e^{ibx} dx$$
$$v = \frac{1}{a} e^{ax}$$

Calculus With Complex Numbers

Emilie Sanchez



Calculus With Complex Numbers:

Calculus with Complex Numbers John B. Reade, 2003-03-13 This practical treatment explains the applications complex calculus without requiring the rigor of a real analysis background The author explores algebraic and geometric aspects of complex numbers differentiation contour integration finite and infinite real integrals summation of series and the fundamental theorem of algebra The Residue Theo

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Calculus, Complex Numbers and Polar Co-ordinates, 1980

Complex Numbers and Vectors Les Evans, 2006 Complex Numbers and Vectors draws on the power of intrigue and uses appealing applications from navigation global positioning systems earthquakes circus acts and stories from mathematical history to explain the mathematics of vectors and the discoveries of complex numbers The text includes historical and background material discussion of key concepts skills and processes commentary on teaching and learning approaches comprehensive illustrative examples with related tables graphs and diagrams throughout references for each chapter text and web based student activities and sample solution notes and an extensive bibliography

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Calculus, Complex Numbers and Polar Co-ordinates [by H. A. Elliott and Others.] Harold Andrew Elliott, 1972

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material on complex analysis but many statements and proofs of classical theorems in complex analysis have been made simpler shorter and more elegant due to modern mathematical ideas and methods For example the Mittag Leffler theorem is proved by the equation the Picard theorem is proved using the methods of differential geometry and so on *Around Caspar Wessel and the Geometric Representation of Complex Numbers* Jesper Lützen,2001

Complex Variables with Applications Saminathan Ponnusamy,Herb Silverman,2007-05-26 Explores the interrelations between real and complex numbers by adopting both generalization and specialization methods to move between them while simultaneously examining their analytic and geometric characteristics Engaging exposition with discussions remarks questions and exercises to motivate understanding and critical thinking skills Enclues numerous examples and applications relevant to science and engineering students *Advanced Engineering Mathematics* Erwin Kreyszig,2020-07-21 A mathematics resource for engineering physics math and computer science students The enhanced e text *Advanced Engineering Mathematics* 10th Edition is a comprehensive book organized into six parts with exercises It opens with ordinary differential equations and ends with the topic of mathematical statistics The analysis chapters address Fourier analysis and partial differential equations complex analysis and numeric analysis The book is written by a pioneer in the field of applied mathematics

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