

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

Didier Musso



Calculus With Complex Numbers:

Calculus with Complex Numbers John B. Reade, 2003-03-13 This practical treatment explains the applications of 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 Theorem. **Integration with Complex Numbers** Brian McMaster, Aisling McCluskey, 2022 Integration with Complex Numbers: A Primer on Complex Analysis offers a reader-friendly contemporary balance between idea, proof, and practice, informed by several decades of classroom experience and a seasoned understanding of the backgrounds, motivation, and competing time pressures of today's student cohorts. 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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