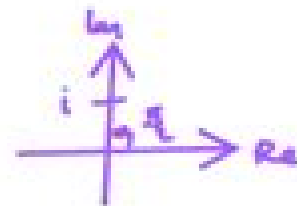


Prove that $\frac{1 + \sin \frac{3\pi}{8} + i \cos \frac{3\pi}{8}}{1 + \sin \frac{3\pi}{8} - i \cos \frac{3\pi}{8}} = \cos \frac{\pi}{8} + i \sin \frac{\pi}{8}$. $e^{i\theta} = \cos \theta + i \sin \theta$

$$\text{LHS} = \frac{[1 + \sin \frac{3}{8}\pi + i \cos \frac{3}{8}\pi] \times i}{[1 + \sin \frac{3}{8}\pi - i \cos \frac{3}{8}\pi] \times i}$$



$$= \frac{i + i \sin \frac{3}{8}\pi - \cos \frac{3}{8}\pi}{i + i \sin \frac{3}{8}\pi + \cos \frac{3}{8}\pi} \quad ; \quad i = e^{i\frac{\pi}{2}} \quad ; \quad \begin{matrix} \cos \theta = \cos(-\theta) \\ -\sin \theta = \sin(-\theta) \end{matrix}$$

$$= \frac{e^{i\frac{\pi}{2}} - i \sin(-\frac{3}{8}\pi) - \cos(-\frac{3}{8}\pi)}{e^{i\frac{\pi}{2}} + e^{i\frac{3}{8}\pi}}$$

$$= \frac{e^{i\frac{\pi}{2}} - [\cos(-\frac{3}{8}\pi) + i \sin(-\frac{3}{8}\pi)]}{e^{i\frac{\pi}{2}} + e^{i\frac{3}{8}\pi}}$$

Calculus With Complex Numbers

Harold Andrew Elliott



Calculus With Complex Numbers:

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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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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 **Integration with**

Complex Numbers Brian McMaster, Aisling McCluskey, 2022-04-18 Complex analysis more than almost any other undergraduate topic in mathematics runs the full pure applied gamut from the most subtle difficult and ingenious proofs to the most direct hands on engineering based applications This creates challenges for the instructor as much as for the very wide range of students whose various programmes require a secure grasp of complex analysis Its techniques are indispensable to many but skill in the use of a mathematical tool is hazardous and fallible without a sound understanding of why and when that tool is the right one to pick up This kind of understanding develops only by combining careful exploration of ideas analysis of proofs and practice across a range of exercises 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 To achieve its aim of supporting and sustaining such cohorts through those aspects of complex analysis that they encounter in first and second year study it also balances competing needs to be self contained comprehensive accessible and engaging all in sufficient but not in excessive measures In particular it begins where most students are likely to be and invests the time and effort that are required in order to deliver accessibility and introductory gradualness *Calculus,*

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An Introduction to

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Complex Numbers and Geometry Liang-shin Hahn, 1994 This book demonstrates how complex numbers and geometry can be blended together to give easy proofs of many theorems in plane geometry

A Friendly Approach To Complex Analysis Amol Sasane, Sara Maad Sasane, 2013-12-24 The book constitutes a basic concise yet rigorous course in complex analysis for students who have studied calculus in one and several variables but have not previously been exposed to complex analysis The textbook should be particularly useful and relevant for undergraduate students in joint programmes with mathematics as well as engineering students The aim of the book is to cover the bare bones of the subject with minimal prerequisites The core content of the book is the three main pillars of complex analysis the Cauchy Riemann equations the Cauchy Integral Theorem and Taylor and Laurent series expansions Each section contains several problems which are not purely drill exercises but are rather

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A First Course in Complex Analysis with Applications Dennis G. Zill, Patrick Shanahan, Patrick D. Shanahan, 2006-07 A First Course In Complex Analysis With Applications Limits Theoretical Coverage To Only What Is Necessary And Conveys It In A Student Friendly Style Its Aim Is To Introduce The Basic Principles And Applications Of Complex Analysis To Undergraduates Who Have No Prior Knowledge Of This Subject Contents Of The Book Include The Complex Number System Complex Functions And Sequences As Well As Real Integrals In Addition To Other Concepts Of Calculus And The Functions Of A Complex Variable This Text Is Written For Junior Level Undergraduate Students Who Are Majoring In Math Physics Computer Science And Electrical Engineering

Foundations of Analysis Edmund Landau, 1960

Fundamentals of Complex Analysis K. K. Dube, 2013-12-30 The book divided in ten chapters deals with Algebra of complex numbers and its various geometrical properties properties of polar form of complex numbers and regions in the complex plane Limit continuity differentiability Different kinds of complex valued functions Different types of transformations Conformal mappings of different functions Properties of bilinear and special bilinear transformation Line integrals their properties and different theorems Sequences and series Power series Zero s of functions residues and residue theorem meromorphic functions different kinds of singularities Evaluation of real integrals Analytic

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