Prove that $\dfrac{1+\sin\dfrac{3\pi}{8}+i\cos\dfrac{3\pi}{8}}{1+\sin\dfrac{3\pi}{8}-i\cos\dfrac{3\pi}{8}}=\cos\dfrac{\pi}{8}+i\sin\dfrac{\pi}{8}$.

$e^{i\theta}=\cos\theta+i\sin\theta$

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

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

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

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

# Calculus With Complex Numbers

**E Durkheim**

**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 **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 **Calculus, Complex Numbers and Polar Co-ordinates [by H. A. Elliott and Others.]** Harold Andrew Elliott,1972 **Foundations of Analysis** Edmund Landau,2001 Why does 2 times 2 4 What are fractions Imaginary numbers Why do the laws of algebra hold And how do we prove these laws What are the properties of the numbers on which the Differential and Integral Calculus is based In other words What are numbers And why do they have the properties we attribute to them Thanks to the genius of Dedekind Cantor Peano Frege and Russell such questions can now be given a satisfactory answer This English translation of Landau s famous Grundlagen der Analysis also available from the AMS answers these important questions Complex Numbers and Polar Curves for Pre-Calc and Trig Kathryn Paulk,2023-06 This book introduces complex numbers and explains how they may be represented in rectangular and polar form How to switch from one form to the other is also explained Then polar curves are introduced with a few simple examples The general equations for limacons spirals roses and straight lines are summarized which helps with graphing them The last half of the book contains sample problems with detailed solutions

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