

### L1.1

Identify and sketch the set of points satisfying.

- (a)  $|z - 1 - i| = 1$  (f)  $0 < \operatorname{Im} z < \pi$   
(b)  $1 < |2z - 6| < 2$  (g)  $-\pi < \operatorname{Re} z < \pi$   
(c)  $|z - 1|^2 + |z + 1|^2 < 8$  (h)  $|\operatorname{Re} z| < |z|$   
(d)  $|z - 1| + |z + 1| \leq 2$  (i)  $\operatorname{Re}(iz + 2) > 0$   
(e)  $|z - 1| < |z|$  (j)  $|z - i|^2 + |z + i|^2 < 2$

#### Solution

Let  $z = x + iy$ , where  $x, y \in \mathbb{R}$ .

(a) Circle, centre  $1 + i$ , radius 1.

$$|z - 1 - i| = 1 \Leftrightarrow |(x - 1) + i(y - 1)| = 1 \Leftrightarrow (x - 1)^2 + (y - 1)^2 = 1^2$$

(b) Annulus with centre 3, inner radius  $1/2$ , outer radius 1.

$$\begin{aligned} 1 < |2z - 6| < 2 &\Leftrightarrow 1 < 2|z - 3| < 2 \Leftrightarrow \\ &\Leftrightarrow 1/2 < |z - 3| < 1 \Leftrightarrow (1/2)^2 < (x - 3)^2 + y^2 < 1^2 \end{aligned}$$

(c) Disk, centre 0, radius  $\sqrt{3}$ .

$$\begin{aligned} |x + iy - 1|^2 + |x + iy + 1|^2 < 8 &\Leftrightarrow \\ \Leftrightarrow (x - 1)^2 + y^2 + (x + 1)^2 + y^2 < 8 &\Leftrightarrow x^2 + y^2 < (\sqrt{3})^2 \end{aligned}$$

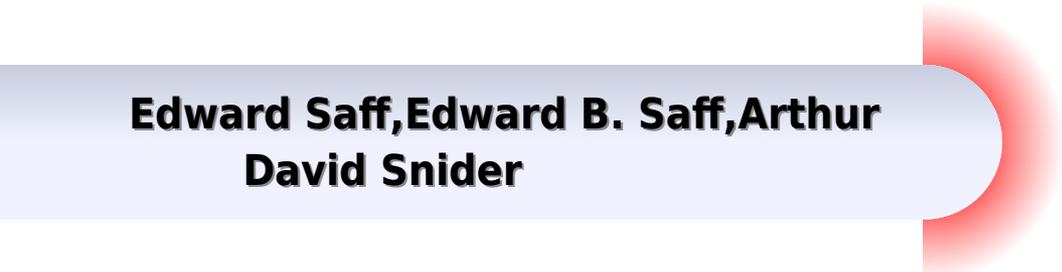
(d) Interval  $[-1, 1]$ .

$$\begin{aligned} |z - 1| + |z + 1| \leq 2 &\Leftrightarrow \sqrt{(x - 1)^2 + y^2} \leq 2 - \sqrt{(x + 1)^2 + y^2} \Leftrightarrow \\ &\Leftrightarrow \left(\sqrt{(x - 1)^2 + y^2}\right)^2 \leq \left(2 - \sqrt{(x + 1)^2 + y^2}\right)^2 \Leftrightarrow \\ &\Leftrightarrow \sqrt{(x + 1)^2 + y^2} \leq x + 1 \Leftrightarrow \left(\sqrt{(x + 1)^2 + y^2}\right)^2 \leq (x + 1)^2 \Leftrightarrow y = 0 \end{aligned}$$

Now, take  $y = 0$  in the inequality, and compute the three intervals

# Solution Manual Complex Analysis Gamelin

**Edward Saff, Edward B. Saff, Arthur  
David Snider**



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**Complex Analysis with Applications in Science and Engineering** Harold Cohen, 2010-04-23 Complex Analysis with Applications in Science and Engineering weaves together theory and extensive applications in mathematics physics and engineering In this edition there are many new problems revised sections and an entirely new chapter on analytic continuation This work will serve as a textbook for undergraduate and graduate students in the areas noted above Key Features of this Second Edition Excellent coverage of topics such as series residues and the evaluation of integrals multivalued functions conformal mapping dispersion relations and analytic continuation Systematic and clear presentation with many diagrams to clarify discussion of the material Numerous worked examples and a large number of assigned problems

A Complete Solution Guide to Complex Analysis Kit-Wing Yu, 2020-01-19 This is a complete solution guide to all exercises in Bak and Newman's Complex Analysis The features of this book are as follows It covers all the 300 exercises with detailed and complete solutions There are 34 illustrations for explaining the mathematical concepts or ideas used behind the questions or theorems Different colors are used in order to highlight or explain problems lemmas remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only Necessary lemmas with proofs are provided Useful or relevant references are provided to some questions for interested readers

*Solutions and Answer Manual for Basic Complex Analysis* Michael J. Hoffman, Jerrold E. Marsden, 1973

**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 continuation construction of harmonic functions infinite product their properties and Gamma function Schwarz Christoffel transformations mapping by multi valued functions entire functions Jensen's theorem and Poisson Jensen theorem The book is designed as a textbook for UG and PG students of science as well as engineering

*Complex Analysis with Applications* Nakhlé H. Asmar, Loukas Grafakos, 2018-10-12 This textbook is intended for a one semester course in complex analysis for upper level undergraduates in mathematics Applications primary motivations for this text are presented hand in hand with theory enabling this text to serve well in courses for students in engineering or applied sciences The overall aim in designing this text is to accommodate students of different mathematical backgrounds and to achieve a balance between presentations of rigorous mathematical proofs and applications The text is adapted to enable maximum flexibility to instructors and to students who may also choose to progress through the material outside of coursework Detailed examples may be covered in

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Joseph Bak, Donald J. Newman, 2011-07-21. This unusual and lively textbook offers a clear and intuitive approach to the classical and beautiful theory of complex variables. With very little dependence on advanced concepts from several variable calculus and topology, the text focuses on the authentic complex variable ideas and techniques. Accessible to students at their early stages of mathematical study, this full first year course in complex analysis offers new and interesting motivations for classical results and introduces related topics stressing motivation and technique. Numerous illustrations, examples, and now 300 exercises enrich the text. Students who master this textbook will emerge with an excellent grounding in complex analysis and a solid understanding of its wide applicability.

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### **Fundamentals of Complex Analysis with Applications to Engineering, Science, and Mathematics** Edward Saff, Edward B. Saff, Arthur David Snider, 2013-07-18

This book provides a comprehensive introduction to complex variable theory and its applications to current engineering problems and is designed to make the fundamentals of the subject more easily accessible to readers who have little inclination to wade through the rigors of the axiomatic approach. Modeled after

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**MARKET** For mathematicians and engineers interested in Complex Analysis and Mathematical Physics

*Complex Analysis* Theral Orvis Moore, Edwin H. Hadlock, 1991 This is a textbook for a first course in functions of complex variable assuming a knowledge of freshman calculus It is designed for students in engineering physics and mathematics Without sacrificing ease and clarity of proofs mathematical preciseness and rigor are stressed Cross references are used to justify almost every step in each proof Solutions and hints are given to many exercises

**Complex Analysis** Joaquim Bruna, Julià Cufí, 2013 The theory of functions of a complex variable is a central theme in mathematical analysis that has links to several branches of mathematics Understanding the basics of the theory is necessary for anyone interested in general mathematical training or for anyone who wants to use mathematics in applied sciences or technology The book presents the basic theory of analytic functions of a complex variable and their points of contact with other parts of mathematical analysis This results in some new approaches to a number of topics when compared to the current literature on the subject Some issues covered are a real version of the Cauchy Goursat theorem theorems of vector analysis with weak regularity assumptions an approach to the concept of holomorphic functions of real variables Green s formula with multiplicities Cauchy s theorem for locally exact forms a study in parallel of Poisson s equation and the inhomogeneous Cauchy Riemann equations the relationship between Green s function and conformal mapping the connection between the solution of Poisson s equation and zeros of holomorphic functions and the Whittaker Shannon theorem of information theory The text can be used as a manual for complex variable courses of various levels and as a reference book The only prerequisite is a working knowledge of the topology of the plane and the differential calculus for functions of several real variables A detailed treatment of harmonic functions also makes the book useful as an introduction to potential theory

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