

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

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K. K. Dube



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Complex Analysis THEODORE GAMELIN, 2003-07-17 An introduction to complex analysis for students with some knowledge of complex numbers from high school It contains sixteen chapters the first eleven of which are aimed at an upper division undergraduate audience The remaining five chapters are designed to complete the coverage of all background necessary for passing PhD qualifying exams in complex analysis Topics studied include Julia sets and the Mandelbrot set Dirichlet series and the prime number theorem and the uniformization theorem for Riemann surfaces with emphasis placed on the three geometries spherical euclidean and hyperbolic Throughout exercises range from the very simple to the challenging The book is based on lectures given by the author at several universities including UCLA Brown University La Plata Buenos Aires and the Universidad Autonoma de Valencia Spain Solutions Manual for Complex Analysis and Applications Jeffrey Alan, 2005-07 *Scientific and Technical Books and Serials in Print*, 1984 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 **Whitaker's Books in Print**, 1998 Paperbound Books in Print, 1992 Paperbound Books in Print 1995 Reed Reference Publishing, R5ference Reed, 1995-12 *Complex Analysis* Eberhard Freitag, 2005 **Problems and Solutions for Complex Analysis** Rami Shakarchi, 2012-12-06 This book contains all the exercises and solutions of Serge Lang's *Complex Analysis* Chapters I through VIII of Lang's book contain the material of an introductory course at the undergraduate level and the reader will find exercises in all of the following topics power series Cauchy's theorem Laurent series singularities and meromorphic functions the calculus of residues conformal mappings and harmonic functions Chapters IX through XVI which are suitable for a more advanced course at the graduate level offer exercises in the following subjects Schwarz reflection analytic continuation Jensen's formula the Phragmen Lindelof theorem entire functions Weierstrass products and meromorphic functions the Gamma function and the Zeta function This solutions manual offers a large number of worked out exercises of varying difficulty I thank Serge Lang for teaching me complex analysis with so much enthusiasm and passion and for giving me the opportunity to work on this answer book Without his patience and help this project would be far from complete I thank my brother Karim for always being an infinite source of inspiration and wisdom Finally I want to thank Mark McKee for his help on some problems and Jennifer Baltzell for the many years of support friendship and complicity Rami Shakarchi Princeton New Jersey 1999 Contents Preface vii I Complex Numbers and Functions

1 1 1 Definition 1 1 2 Polar Form 3 1 3 Complex Valued Functions 8 1 4 Limits and Compact Sets 9 1 6 The Cauchy Riemann Equations

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