

**R Fundamental definitions and results**

**R0**  $(x_1 + yi)(x_2 + yi) = (x_1x_2 - y_1y_2) + (x_1y_2 + x_2y_1)i$   
 $|x + yi| = \sqrt{x^2 + y^2}$ ,  $|x + yi| = \sqrt{x^2 + y^2}$ ,  $d(z_1, z_2) = |z_1 - z_2|$

**R1**  $\frac{1}{1-z} = 1 + z + z^2 + z^3 + \dots$  for  $|z| < 1$

**R2**  $e^z = 1 + \frac{z}{1!} + \frac{z^2}{2!} + \frac{z^3}{3!} + \dots$  for any  $z$

**R3** In the neighbourhood of a pole  $z_0$  of order  $k$   
 $f(z) = \frac{a_{-k}}{(z-z_0)^k} + \dots + \frac{a_{-1}}{(z-z_0)} + a_0 + a_1(z-z_0) + \dots$   
 and  $\text{Res}_{z_0} f = a_{-1} = \lim_{z \rightarrow z_0} ((z-z_0)^k f(z))^{(k-1)}$

**R4** Complex integral of  $f: D \rightarrow \mathbb{C}$  along  $\gamma: [a, b] \rightarrow D$  is  
 $\int_{\gamma} f(z) dz = \int_a^b f(\gamma(t)) \gamma'(t) dt$

**R5 Theorem of Residues.** For an open set  $D \subset \mathbb{C}$ :

$f: D \rightarrow \mathbb{C}$  holomorphic function  
 $S$  set of isolated singular points  
 $\gamma$  path homotopic to zero in  $D \setminus S$

$$\int_{\gamma} f(z) dz = 2\pi i \sum_{z \in S} n(z, \gamma) \text{Res}_z f$$

**R6 Lemma 1.** For  $\gamma_r: [0, \beta] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$   
 $\lim_{r \rightarrow \infty} z f(z) = 0 \Rightarrow \lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = 0$

**R7 Lemma 2 (Jordan).** For  $\gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$   
 $\lim_{r \rightarrow \infty} f(z) = 0 \Rightarrow \lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) e^{iz} dz = 0$

**A Problems**

**1**  $(1-2i)^2 = ?$ ,  $\frac{1-i}{1+i} = ?$ ,  $e^{-2i} = ?$ ,  $d(1+i, 2-i) = ?$ ,  
 $(z \sin z)' = ?$ ,  $(e^z)' = ?$ ,  $\lim_{z \rightarrow \infty} \left( \frac{z}{z^2} + \frac{1}{z} \right) = ?$ .

**2** Expand in a power series of  $z$  the functions  
 $f_1(z) = e^{z^2}$ ,  $f_2(z) = ze^{z^2}$ ,  $f_3(z) = \frac{1}{1-z^2}$

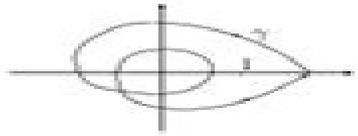
**Solution.**  
 $f_1(z) = 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots$  for any  $z$ .  
 $f_2(z) = z \left( 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots \right) = \dots + \frac{z^3}{1!} + \frac{z^5}{2!} + z + \dots$  for  $|z| > 0$ .  
 $f_3(z) = \frac{1}{1-z^2} \left( 1 + z + z^2 + z^3 + \dots \right) = \frac{1}{1-z} + \frac{z}{1-z^2} + \dots$  for  $0 < |z| < 1$ .

**3** Compute the residues of  $f(z) = \frac{1}{z^3(z-1)^2}$   
*Hint.* 0 is a pole of order 3 and  $\pm 1$  are poles of order 2.

**B Problems**

**1** Prove that  $f: \mathbb{C} \rightarrow \mathbb{C}$ ,  $f(z) = 1 + z$  is not  $\mathbb{C}$ -differentiable.  
*Hint.* Use the Cauchy-Riemann theorem.

**2** For  $\gamma: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma(t) = e^{it}$ , compute  $\int_{\gamma} (z+i) dz$ .  
*Hint.* Use the definition of the complex line integral.



**3** Compute the integral  $\int_{\gamma} \frac{1}{z^2(z-1)} dz$  where  $\gamma$  is the path from the figure above.

**Solution.** By using the theorem of residues, we get  
 $\int_{\gamma} \frac{1}{z^2(z-1)} dz = 2\pi i (2 \text{Res}_0 f + \text{Res}_1 f) = 2\pi i$ .

**4** Compute the residue of  $f(z) = ze^{z^2}$  at the singular point  $z_0 = 0$ .  
*Solution.*  $f(z) = \dots + \frac{z}{1!} + \frac{z^3}{3!} + \dots + 1 + z$  for any  $z \Rightarrow \text{Res}_0 f = \frac{1}{2}$ .

**C Problems**

**1** Compute the residues of  $f(z) = z^2 e^{-z^2}$  at the singular point  $z_0 = 1$ .  
*Hint.*  $f(z) = ((z-1)^2 + 2(z-1) + 1) \left( 1 + \frac{1}{2} \frac{z-1}{1} + \frac{1}{2} \frac{(z-1)^2}{1 \cdot 2} + \frac{1}{6} \frac{(z-1)^3}{1 \cdot 2 \cdot 3} + \dots \right)$ .

**2** Compute the integrals  $I_1 = \int_0^{2\pi} \frac{1}{2a + b \cos t} dt$  and  $I_2 = \int_0^{2\pi} \frac{1}{2a + b \cos t} e^{it} dt$   
*Solution.* By using the path  $\gamma: [0, 2\pi] \rightarrow \mathbb{C}$ ,  $\gamma(t) = e^{it}$ , we get  
 $I_1 = \int_0^{2\pi} \frac{1}{2a + b \frac{z+z^{-1}}{2}} dz = \int_0^{2\pi} \frac{2 dz}{4a + b(z+z^{-1})} = \int_0^{2\pi} \frac{2 dz}{b(z^2 + \frac{4a}{b}z + 1)}$   
 $= -i \int_{\gamma} \frac{1}{z^2 + \frac{4a}{b}z + 1} dz = -i \int_{\gamma} \frac{2 dz}{z^2 + \frac{4a}{b}z + 1} = 2\pi \text{Res}_{-2+2\sqrt{3}} \frac{2}{z^2 + \frac{4a}{b}z + 1} = \frac{2\pi}{\sqrt{3}}$

**3** Compute the integrals  $\int_0^{\infty} \frac{1}{1+x^2} dx$  and  $\int_0^{\infty} \frac{1}{1+x^2} e^{ix} dx$   
*Solution.* The integral is convergent: at infinity  $\frac{1}{1+x^2} \sim \frac{1}{x^2}$ .  
 By using  $\gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$  and  $f(z) = \frac{1}{1+z^2}$ , we get  
 $\int_{\gamma_r} f(z) dz = \int_0^{\pi} f(x) dx = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$ , whence  
 $\lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = \int_{-\infty}^{\infty} f(x) dx = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$ .

Since  $|z f(z)| = \frac{|z|}{|1+z^2|} = \frac{|z|}{|z^2-1|} \leq \frac{|z|}{|z|^2-1}$ , we have  $\lim_{z \rightarrow \infty} z f(z) = 0$  and in view of lemma 1,  $\lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = 0$ .  
 Consequently,  $\int_0^{\infty} f(x) dx = \pi i (\text{Res}_i f + \text{Res}_{-i} f) = \frac{\pi}{2}$ .

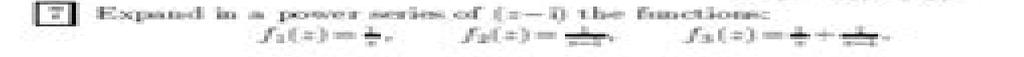
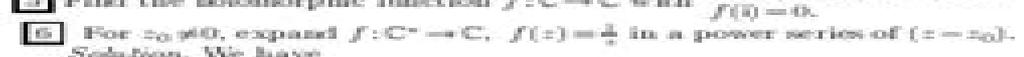
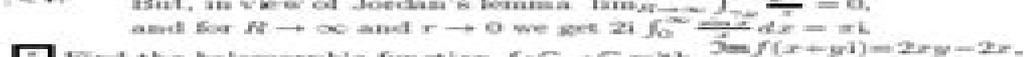
**4** Prove that  $\int_0^{\infty} \frac{\sin x}{x} dx = \frac{\pi}{2}$  (Poisson's integral).  
*Solution.* Let  $0 < r < R$  and  $\gamma_R, \gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_R(t) = Re^{it}$ ,  $\gamma_r(t) = re^{it}$ .  
 From the residue theorem (right hand side of fig.) it follows the relation  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_{\gamma} \frac{e^{iz}}{z} dz + \int_{\gamma'} \frac{e^{iz}}{z} dz = 0$ , that is  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}}{x} dx + 2i \int_0^{\pi} \frac{\sin x}{x} dx = 0$ ,  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}}{x} dx + 2i \int_0^{\pi} \frac{\sin x}{x} dx = 0$ .

If  $g$  is an antiderivative of  $f(z) = \frac{e^{iz}}{z}$ , by using  $\int_{\gamma_r} \frac{1}{z} dz = -\pi i$ , we get  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz = g(R) - g(-R) + 2i \int_0^{\pi} \frac{\sin x}{x} dx = 0$ .  
 But, in view of Jordan's lemma  $\lim_{R \rightarrow \infty} \int_{\gamma_R} \frac{e^{iz}}{z} dz = 0$ ,  
 and for  $R \rightarrow \infty$  and  $r \rightarrow 0$  we get  $2i \int_0^{\infty} \frac{\sin x}{x} dx = \pi i$ .

**5** Find the holomorphic function  $f: \mathbb{C} \rightarrow \mathbb{C}$  with  $\frac{\partial f}{\partial x}(x+yi) = 2xy - 2x$ ,  $f(i) = 0$ .

**6** For  $z_0 \neq 0$ , expand  $f: \mathbb{C}^* \rightarrow \mathbb{C}$ ,  $f(z) = \frac{1}{z}$  in a power series of  $(z-z_0)$ .  
*Solution.* We have  
 $f(z) = \frac{1}{z_0 + (z-z_0)} = \frac{1}{z_0} \frac{1}{1 + \frac{z-z_0}{z_0}} = \frac{1}{z_0} \left( 1 - \frac{1}{z_0} (z-z_0) + \frac{1}{z_0^2} (z-z_0)^2 - \dots \right)$ ,  
 for  $|z-z_0| < |z_0|$ .  
 $f(z) = \frac{1}{z_0 + (z-z_0)} = \frac{1}{z_0} \frac{1}{1 - \frac{z-z_0}{z_0}} = \frac{1}{z_0} \left( 1 + \frac{1}{z_0} (z-z_0) + \frac{1}{z_0^2} (z-z_0)^2 + \dots \right)$ ,  
 for  $|z-z_0| > |z_0|$ .

**7** Expand in a power series of  $(z-i)$  the functions:  
 $f_1(z) = \frac{1}{z}$ ,  $f_2(z) = \frac{1}{z^2}$ ,  $f_3(z) = \frac{1}{z} + \frac{1}{z^2}$ .



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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

Complex Analysis Dennis G. Zill, Patrick D. Shanahan, 2013-09-20 Designed for the undergraduate student with a calculus background but no prior experience with complex analysis this text discusses the theory of the most relevant mathematical topics in a student friendly manner With a clear and straightforward writing style concepts are introduced through numerous examples illustrations and applications Each section of the text contains an extensive exercise set containing a range of computational conceptual and geometric problems In the text and exercises students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity Each chapter contains a separate section devoted exclusively to the applications of complex analysis to science and engineering providing students with the opportunity to develop a practical and clear understanding of complex analysis The Mathematica syntax from the second edition has been updated to coincide

with version 8 of the software

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**Limits, Series, and Fractional Part Integrals** Ovidiu Furdui, 2013-05-30 This book features challenging problems of classical analysis that invite the reader to explore a host of strategies and tools used for solving problems of modern topics in real analysis This volume offers an unusual collection of problems many of them original specializing in three topics of mathematical analysis limits series and fractional part integrals The work is divided into three parts each containing a chapter dealing with a particular problem type as well as a very short section of hints to select problems The first chapter collects problems on limits of special sequences and Riemann integrals the second chapter focuses on the calculation of fractional part integrals with a special section called Quickies which contains problems that have had unexpected succinct solutions The final chapter offers the reader an assortment of problems with a flavor towards the computational aspects of infinite series and special products many of which are new to the literature Each chapter contains a section of difficult problems which are motivated by other problems in the book These Open Problems may be considered research projects for students who are studying advanced calculus and which are intended to stimulate creativity and the discovery of new and original methods for proving known results and establishing new ones This stimulating collection of problems is intended for undergraduate students with a strong background in analysis graduate students in mathematics physics and engineering researchers and anyone who works on topics at the crossroad between pure and applied mathematics Moreover the level of problems is appropriate for students involved in the Putnam competition and other high level mathematical contests

[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 [A Collection of Problems on Complex Analysis](#) Lev Izrailevich Volkovyskiĭ, G. L. Lunts, Isaak Genrikhovich Aramanovich, 1991 This comprehensive collection contains over 1 500 problems on the theory of functions of the complex variable and covers nearly every branch of classical function theory It will be of special interest to practicing engineers and researchers in the physical sciences for considerable attention is given to those problems which illustrate the application of the theory of functions of a complex variable to problems dealing with the mechanics of continuous media and electrical engineering The problems themselves range in difficulty from elementary to those encountered only in more advanced treatments The first four chapters involve complex numbers and functions of a complex variable conformal mappings connected with elementary functions supplementary geometrical questions and generalized analytic functions and integrals and power series Chapters V through VIII cover the Laurent series singularities of single valued functions and integral functions various series of functions parametric integrals and infinite products residues and their applications integrals of the Cauchy type and integral functions of Poisson and Schwarz The final three chapters discuss analytic continuation singularities of many valued character and Riemann Surfaces conformal mappings and applications to mechanic and physics Answers and solutions are grouped at the end of the text

**Atomic Pair Distribution Function Analysis** Simon Billinge, Kirsten Jensen, 2023-11-08 Since the early 1990s the atomic pair distribution function PDF analysis of powder diffraction data has undergone something of a revolution in its ability to do just that yield important structural information beyond the average crystal structure of a material With the advent of advanced sources computing and algorithms it is now useful for studying the structure of nanocrystals clusters and molecules in solution or otherwise disordered in space nanoporous materials and things intercalated into them and to look for local distortions and defects in crystals It can be used in a time resolved way to study structural changes taking place during synthesis and in operating devices and to map heterogeneous systems Although the experiments are somewhat straightforward there can be a gap in knowledge when trying to use PDF to extract structural information by modelling This book addresses this gap and guides the reader through a series of real life worked examples that gradually increase in complexity so the reader can have the independence and confidence to apply PDF methods to their own research and answer their own scientific questions The book is intended for graduate students and other research scientists who are new to PDF and want to use the methods but are unsure how to take the next steps to get started *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 one course giving the instructor the option to choose those that are best suited for discussion Examples showcase a variety of problems with completely worked out solutions assisting students in working through the exercises The numerous exercises vary in difficulty from simple applications of formulas to more advanced project type problems Detailed hints accompany the more challenging problems Multi part exercises may be assigned to individual students to groups as projects or serve as further illustrations for the instructor Widely used graphics clarify both concrete and abstract concepts helping students visualize the proofs of many results Freely accessible solutions to every other odd exercise are posted to the book's Springer website Additional solutions for instructors use may be obtained by contacting the authors directly

**Handbook of Conformal Mappings and Applications** Prem K. Kythe, 2019-03-04 The subject of conformal mappings is a major part of geometric function theory that gained prominence after the publication of the Riemann mapping theorem for every simply connected domain of the extended complex plane there is a univalent and meromorphic function that maps such a domain conformally onto the unit disk The Handbook of Conformal Mappings and Applications is a compendium of at least all known conformal maps to date with diagrams and description and all possible applications in different scientific disciplines such as fluid flows heat transfer acoustics electromagnetic fields as static fields in electricity and magnetism various mathematical models and methods including solutions of certain integral equations

Solving Problems in Mathematical Analysis, Part II Tomasz Radożycki, 2020-02-22 This textbook offers an extensive list of completely solved problems in mathematical analysis This second of three volumes covers definite improper and multidimensional integrals functions of several variables differential equations and more The series contains the material corresponding to the first three or four semesters of a course in Mathematical Analysis Based on the author's years of teaching experience this work stands out by providing detailed solutions often several pages long to the problems The basic premise of the book is that no topic should be left unexplained and no question that could realistically arise while studying the solutions should remain unanswered The style and format are straightforward and accessible In addition each chapter includes exercises for students to work on independently Answers are provided to all problems allowing students to check their work Though chiefly intended for early undergraduate students of Mathematics Physics and Engineering the book will also appeal to students from other areas with an interest in Mathematical Analysis either as supplementary reading or for independent study

**Problems in Real and**

**Complex Analysis** Bernard R. Gelbaum, 1992-06-18 This text covers many principal topics in the theory of functions of a complex variable These include in real analysis set algebra measure and topology real and complex valued functions and topological vector spaces In complex analysis they include polynomials and power series functions holomorphic in a region entire functions analytic continuation singularities harmonic functions families of functions and convexity theorems

*Digital Technologies and Institutions for Sustainable Development* Aleksei V. Bogoviz, Elena G. Popkova, 2022-10-11 This book focuses on digital institutions and the advanced technologies used on their basis as well as their contribution to sustainable development in the unity of seventeen SDGs formulated by the UN which is sequentially disclosed in six parts of the book This book is dedicated to comprehensive coverage of the role of the digital economy in sustainable development and the offering of a set of scientific methodological and practical recommendations to increase the scale and effectiveness of this role The first part explores the training of digital personnel for sustainable development the second part reveals the regional features of Russia and the third part describes the industry specifics of using digital technologies in entrepreneurship in support of sustainable development The fourth part deals with financial organizational and managerial issues of using digital technologies in entrepreneurship in support of sustainable development the fifth part is devoted to security international factors and risks and the sixth part deals with the legal framework and state regulation of digital technologies and sustainable development institutions The novelty of the book lies in its reliance on an institutional approach that allows rethinking and systematically studying the contribution of the digital economy to sustainable development The book is aimed at scholars who will find in it an institutional understanding of the digital economy s support for sustainable development and ways to improve it The secondary target audience of the book is the subject of managing the sustainable development of the digital economy For them the book contains relevant and illustrative examples from practice and applied recommendations

**Linear and Complex Analysis Problem Book 3** Victor P. Havin, Nikolai K. Nikolski, 2006-12-08 The 2 volume book is an updated reorganized and considerably enlarged version of the previous edition of the Research Problem Book in Analysis LNM 1043 a collection familiar to many analysts that has sparked off much research This new edition created in a joint effort by a large team of analysts is like its predecessor a collection of unsolved problems of modern analysis designed as informally written mini articles each containing not only a statement of a problem but also historical and methodological comments motivation conjectures and discussion of possible connections of plausible approaches as well as a list of references There are now 342 of these mini articles almost twice as many as in the previous edition despite the fact that a good deal of them have been solved

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**Solving Problems in Mathematical Analysis, Part I** Tomasz Radożycki, 2020-02-20 This textbook offers an extensive list of completely solved problems in mathematical analysis This first of three volumes covers sets functions limits derivatives integrals sequences and series to name a few The series contains the material corresponding to the first three or four semesters of a course in Mathematical Analysis Based on the author's years of teaching experience this work stands out by providing detailed solutions often several pages long to the problems The basic premise of the book is that no topic should be left unexplained and no question that could realistically arise while studying the solutions should remain unanswered The style and format are straightforward and accessible In addition each chapter includes exercises for students to work on independently Answers are provided to all problems allowing students to check their work Though chiefly intended for early undergraduate students of Mathematics Physics and Engineering the book will also appeal to students from other areas with an interest in Mathematical Analysis either as supplementary reading or for independent study *Reviews in Complex Analysis, 1980-1986*, 1989

**Engineering Problem-Solving 101: Time-Tested and Timeless Techniques :**  
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