

## 1 Basic complex analysis; the simply-connected Riemann surfaces

1. Background in real analysis and basic differential topology (such as covering spaces and differential forms) is a prerequisite.
2. Relations of complex analysis to other fields include: algebraic geometry, complex manifolds, several complex variables, Lie groups and homogeneous spaces  $(\mathbb{C}, \mathbb{H}, \hat{\mathbb{C}})$ , geometry (Platonic solids; hyperbolic geometry in dimensions two and three), Teichmüller theory, elliptic curves and algebraic number theory,  $\zeta(s)$  and prime numbers, dynamics (iterated rational maps).
3. Algebraic origins of complex analysis; solving cubic equations  $x^3 + ax + b = 0$  by Tschirnhaus transformation to make  $a = 0$ . This is done by introducing a new variable  $y = cx^2 + d$  such that  $\sum y_i = \sum y_i^2 = 0$ ; even when  $a$  and  $b$  are real, it may be necessary to choose  $c$  complex (the discriminant of the equation for  $c$  is  $27b^2 + 4a^3$ .) It is negative when the cubic has only one real root; this can be checked by looking at the product of the values of the cubic at its max and min.
4. Elements of complex analysis:  $\mathbb{C} = \mathbb{R}[i]$ ,  $\mathbb{T}$  (and related examples for  $\mathbb{Q}[\sqrt{2}]$ ). Geometry of multiplication: why is it conformal? (Because  $|ab| = |a||b|$ , so triangles are mapped to similar triangles!) Visualizing  $e^z = \lim(1 + z/n)^n$ . A pie slice centered at  $-n$  and with angle  $\pi/n$  is mapped to the upper semi-circle; in the limit we find  $\exp(\pi i) = -1$ .
5. Definition:  $f(z)$  is analytic if  $f'(z)$  exists. Note: we do not require continuity of  $f'$ ! Cauchy's theorem:  $\int_\gamma f(z)dz = 0$ . Plausibility:  $\int_\gamma z^n dz = \int_a^b \gamma(t)^n \gamma'(t) dt = \int_a^b (\gamma(t)^{n+1}) / (n+1) dt = 0$ .  
Proof 1:  $f(z)dz$  is a closed form, when  $f$  is holomorphic, assuming  $f(z)$  is smooth. Discussion:  $f$  is holomorphic iff  $idf/dx = df/dy$ ; from

# Basic Complex Analysis Instructors Manual

**S Nieto**



## **Basic Complex Analysis Instructors Manual:**

Basic Complex Analysis Instructors Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Basic Complex Analysis Instructors Manual : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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