

Complex Analysis, Steins and Shabat's

Chapter 2 Cauchy's Theorem and Its Applications

Thang Nguyen, Steins

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Exercises

1. We seek the representation for the Riemann integral:

$$\int_{\gamma} f(z) dz = \int_a^b f(\gamma(t)) \gamma'(t) dt = \underline{\quad\quad\quad}$$

2. We seek the representation for the Cauchy integral:

$$\int_{\gamma} \frac{f(z)}{z - \zeta} dz = \underline{\quad\quad\quad}$$

3. Evaluate the integral $\int_{\gamma} \frac{f(z)}{z - \zeta} dz$ as in 2 by means of integral (1) and (2)

4. Prove that for all $\epsilon > 0$, we have $\left| \int_{\gamma} \frac{f(z)}{z - \zeta} dz - \int_{\gamma} \frac{f(z)}{z - \zeta} dz \right| < \epsilon$ (Problem 4)

5. Show that Cauchy's theorem for piecewise smooth curves holds for arbitrary curves. Show that (1) is equivalently expressed differentiations for (1). (Problem 5)

6. Let γ be a piecewise smooth arc and let $\zeta \in \gamma$. If γ is a simple closed curve, it also contains ζ . Suppose that γ is a bounded Jordan curve. Is it enough possibly to a point to evaluate (1)? Prove that it is bounded curve γ . Show

$$\int_{\gamma} \frac{f(z)}{z - \zeta} dz = \underline{\quad\quad\quad}$$

Elias Stein Complex Analysis Solution Manual

Rami Shakarchi



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