

Complex Analysis, Steins and Shokaridi

Chapter 2 Cauchy's Theorem and Its Applications

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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:

$$\int_{\gamma} \frac{f(z)}{z - z_0} dz = \underline{\quad\quad\quad}$$

3. Evaluate the integral $\int_{\gamma} \frac{1}{z^2} dz$ for γ as in (a) by means of integral (1) and (2).

4. Prove that for all $\gamma \in \mathcal{C}(D)$ we have $\int_{\gamma} \frac{1}{z^2} dz = -\frac{1}{\gamma(b)} + \frac{1}{\gamma(a)}$ (Problem 3).

5. Show that Cauchy's theorem for paths homotopic to zero holds for all closed curves that (1) are continuously deformed differentiable (as in (2) above).

6. Let γ be a open subset of $\mathbb{C}$ and let $f: \gamma \rightarrow \mathbb{C}$ be a strongly holomorphic function which vanishes at z_0 . Arguing that f is a holomorphic isomorphism for it enough possibly as a point to vanish. $f = 0$. Prove that if f is bounded near z_0 , then

$$\int_{\gamma} f(z) dz = 0$$

Elias Stein Complex Analysis Solution Manual

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