

# 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:

$$\int_{\gamma} f(z) dz = \int_a^b f(\gamma(t)) \gamma'(t) dt = \underline{\hspace{2cm}}$$

2. We seek the representation for the Cauchy integral:

$$\int_{\gamma} \frac{f(z)}{z - z_0} dz = \underline{\hspace{2cm}}$$

3. Evaluate the integral  $\int_{\gamma} \frac{1}{z^2} dz$  for  $\gamma$  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 (that) 1) are continuously deformed differentiable (a.e.) (Problem 4)

6. Let  $\gamma$  be a open subset of  $\mathbb{C}$  and let  $f: \gamma \rightarrow \mathbb{C}$  be a strongly holomorphic function which vanishes on  $\gamma$ . Arguing that  $f$  is a holomorphic function on  $\mathbb{C}$  (using possibly an  $\varepsilon$ -pinch argument) 7) Prove that  $f$  is identically zero on  $\gamma$ . Show

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

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