

# Complex Analysis, Steins and Shabat's

## Chapter 2 Cauchy's Theorem and Its Applications

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### Exercises

1. We seek the representation for the Cauchy integral:

$$\int_{\gamma} \frac{f(z)}{z - \zeta} dz = \int_{\gamma} f(z) \frac{1}{z - \zeta} dz = \frac{1}{2\pi i}$$

2. We seek the representation for the Cauchy integral:

$$\int_{\gamma} \frac{f(z)}{z - \zeta} dz = \frac{1}{2\pi i}$$

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

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

5. Show that Cauchy's theorem for plane domains holds for all domains which are not bounded regions. Show that (1) is valid for any simply connected domain (see (1)). (Problem 5)

6. Let  $\gamma$  be a given contour in  $\mathbb{C}$  and let  $\zeta \in \mathbb{C}$  be a point whose distance to  $\gamma$  is bounded by  $R$ . Suppose that  $f$  is a function holomorphic in  $\mathbb{C}$  except possibly at a point or points  $\zeta_1, \dots, \zeta_n$ . Prove that if  $f$  is bounded near  $\zeta_1, \dots, \zeta_n$

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

# Fundamentals Of Complex Analysis Solutions Chapter 3

**Thomas Griffiths**



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