

Complex Analysis, Series and Residues

Chapter 3 Cauchy's Theorem and Its Applications

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Exercise 3.1

1. Evaluate the integrations for the branch integrals

$$\int_{\gamma} z^{-1/2} dz \quad \text{and} \quad \int_{\gamma} z^{-3/2} dz \quad \text{for } \gamma = \frac{\partial D}{\partial z}$$

2. Evaluate the integrations for the Cauchy integrals

$$\int_{\gamma} \frac{1}{z} dz \quad \text{and} \quad \int_{\gamma} \frac{1}{z^2} dz$$

3. Evaluate the integral $\int_{\gamma} z^{-1/2} dz$ for $\gamma = \partial D$ by contour integral (3.10.1)

4. Prove that for all $\alpha \in \mathbb{C}$, the function $f(z) = z^{-\alpha} = e^{-\alpha \log z}$ is analytic

5. Show that Cauchy's theorem for paths does not hold for the multivalued function $f(z) = z^{-1/2}$ on a closed curve γ encircling the branch cut for $f(z)$.

6. Let γ be a circle centered at 0 and let $\alpha \in \mathbb{C}$. If γ is a simple closed curve in the complex plane, α is constant on γ . Arguing that f is a holomorphic function on \mathbb{C} except possibly at $z = 0$ prove that $\int_{\gamma} z^{-\alpha} dz$ is bounded near $z = 0$ when

$$\operatorname{Re} \alpha > 1$$

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