

Complex Analysis, Steins and Shokaridi

Chapter 2 Cauchy's Theorem and its Applications

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Exercises

1. Evaluate the integrations for the second integrals

$$\int_{\gamma} \frac{1}{z^2} dz = \int_{\gamma} \frac{1}{z^3} dz = \underline{\underline{0}}$$

2. Evaluate the integrations for the Cauchy integrals

$$\int_{\gamma} \frac{1}{z^2} dz = \underline{\underline{0}}$$

3. Evaluate the integral $\int_{\gamma} \frac{1}{z^2} dz$ for γ is a circle $|z| = 2$ by contour integral (Theorem)

4. Prove that for all $z \in \mathbb{C}$, we have $\frac{1}{z^2} = -\frac{1}{z^3} \frac{dz}{dz}$ (Theorem)

5. Show that Cauchy's theorem for power functions holds for all rational numbers. Show that $\frac{1}{z^2}$ is continuously complex differentiable for $z \neq 0$ (Theorem)

6. Let γ be a piecewise smooth arc γ and let $f(z)$ be a function whose domain is also contained in $\mathbb{C}$. Suppose that f is a function holomorphic in $\mathbb{C}$ except possibly at a point or points $\{z_1, \dots, z_n\}$. Prove that if f is bounded near $z_1, \dots, z_n$

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

Elias Stein Complex Analysis Solution Manual

Michael Seilmaier



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