

Complex Analysis, Steen and Seebard

Chapter 2 Cauchy's Theorem and Its Applications

Thang Nguyen, Steen
2027.03.04

Exercises

1. We seek the antiderivatives for the second integrals:

$$\int_{\gamma} \frac{1}{z^2} dz = \int_{\gamma} \frac{1}{z} dz = \frac{2\pi i}{n}$$

2. We seek the antiderivatives for the Cauchy integrals

$$\int_{\gamma} \frac{1}{z^n} dz = \frac{1}{1-n} z^{1-n}$$

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

4. Prove that for all $n \in \mathbb{Z}$, we have $\int_{\gamma} \frac{1}{z^n} dz = 0$ for $n \neq 1$ (Theorem)

5. Show that Cauchy's theorem for power functions holds for all rational numbers. Show that $\int_{\gamma} \frac{1}{z} dz$ is consistently computed (differentiation for $n=1$) (Theorem)

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

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

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