Complex Analysis, Stein and Shakarchi
Chapter 3 Meromorphic Functions and the Logarithm

Yung-Hsiang Huang[*]

2017.11.05

Exercises

1. From the identity $\sin \pi z = \frac{e^{i\pi z} - e^{-i\pi z}}{2i}$, it's easy to show its zeros are exactly $n \in \mathbb{Z}$. Each of them is of order 1 by showing $(\frac{d}{dz} \sin \pi z)(n) \neq 0$. The residue of $\frac{1}{\sin \pi z}$ at $z = n$ is $\frac{(-1)^n}{\pi}$ by computing $\lim_{z \to n} \frac{z-n}{\sin \pi z}$ with the weak form of L'Hôpital's Rule.

2. Evaluate the integral

$$\int_{\mathbb{R}} \frac{dx}{1 + x^4}.$$

Proof. The computation is standard, see [1, Section 11.1] □

3. It's standard to compute the Fourier transform of 1-d Poisson Kernel for upper half plane. We omit it.

4. It's also standard to compute the Fourier transform of the conjugated Poisson Kernel (which is related to the Hilbert transform). We omit it.

5. Use contour integration to show that

$$\int_{\mathbb{R}} \frac{e^{-2\pi i x \xi}}{(1 + x^2)^2} \, dx = \frac{\pi}{2}(1 + 2\pi|\xi|)e^{-2\pi|\xi|}$$

for all $\xi \in \mathbb{R}$.

Proof. □

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Stein And Shakarchi Complex Analysis Solutions

Thirumalaisamy P. Velavancorresponding

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