

# Complex Analysis, Series and Residues

## Chapter 3 Cauchy's Theorem and its Applications

### Exam Review Strategy

2027-2028

#### Exercise 3.1

1. Evaluate the integrations for the branch integrals

$$\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz \quad \int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz \quad \frac{2\pi i}{\alpha}$$

2. Evaluate the integrations for the Cauchy integrals

$$\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz \quad \frac{2\pi i}{\alpha}$$

3. Evaluate the integral  $\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz$  as a real integral (1982)

4. Prove that for all  $\alpha \in \mathbb{R}$ ,  $\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz = \frac{2\pi i}{\alpha}$  (1982)

5. Show that Cauchy's theorem for poles does not hold for the multivalued integrand  $\frac{z^{\alpha-1}}{z^2+1}$  as a consequence of complex differentiability (1982)

6. Let  $\gamma$  be a circle centered at  $i$  and let  $\alpha \in \mathbb{R}$ . Let  $\gamma$  be a branch defined on  $\mathbb{C} \setminus \mathbb{R}$ . Show that  $\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz = \frac{2\pi i}{\alpha}$ . (1982)

$$\int_{\gamma} \frac{z^{\alpha-1}}{z^2+1} dz = \frac{2\pi i}{\alpha}$$

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**Christian G. Meyer**



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