

Review For Test 1

Chapter 6

Definitions: Singularities, Poles, Taylors Series, Laurent Series

Be able to compute Taylor and Laurent series

Chapter 7

Prove $\oint_C f(z)dz = 2\pi ia_{-1}$.

Know and be able to apply the residue Therom

Chapter 8

Prove the mapping $w = f(z)$ of an analytic function $f(z)$ is 1-1 if $f'(z) \neq 0$ pg(243)

Prove Theorem 8.1 pg 243(258-259)

Chapter 9

Derive the Poisson integration Formula for the circle (157-158)