## isolated singularities $a_1, a_2, \ldots, a_m$ . If $\gamma$ is a closed rectifiable curve in G which does not pass through any of the points $a_k$ and if $\gamma \approx 0$ in G then

**Theorem 1 (Residue Theorem)** Let f be analytic in the region G except for the

 $\frac{1}{2\pi i} \int_{\gamma} f = \sum_{k=1}^{m} n(\gamma; a_k) \operatorname{Res}(f; a_k).$