**Theorem 1 (Residue Theorem).** Let f be analytic in the region G except for the isolated singularities  $a_1, a_2, ..., a_m$ . 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  $\mathop{\rm Res}_{z=a} f(z) = \mathop{\rm Res}_a f = \frac{1}{2\pi \mathrm{i}} \int\limits_C f(z) \,\mathrm{d}z,$ 

where  $C \subset D \setminus \{a\}$  is a closed line n(C, a) = 1 (e. g. a counterclockwise circle loop).

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BCDΣΕΓΓGHIJ $KLMNO\Theta$  $\Omega$ P $\Phi$ ΠΞ $\Omega$ RST $UVWXYY\Psi$ Z ABCDabcd1234  $a\alpha b\beta c\partial d\delta e\epsilon \epsilon f\zeta \xi g\gamma h\hbar i ii jkκ l\ell \lambda mnηθ  $\partial$  οσς  $\phi \phi \wp p \rho \varrho q r s t \tau \pi u \mu v v v v \omega \omega$$ 

$$xyz \infty \propto \emptyset y = f(x) \qquad \qquad \sum \int \prod \sum_{a} \sum_{a}^{b} \int_{a}^{b} \prod_{a}^{b} \sum_{a}^{b} \int_{a}^{b} \prod_{a}^{b}$$