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Suppose  $f(z)$  has a pole @  $z_0$   
 Contour Integrals  
 $\int_{\Gamma} f(z) dz$   $\Gamma$ : some line (curve) in the complex plane  
 $f(z)$ : analytic function  
 near any  $z_0$ ,  $f(z) = \sum_{n=0}^{\infty} C_n(z_0) (z-z_0)^n$   
 no separate dependence on  $\text{Re } z, \text{Im } z$   


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 $\int_{\Gamma_1} f(z) dz = \int_{\Gamma_2} f(z) dz$   
 provided:  
 1) same end points (if both  $\Gamma_1, \Gamma_2$  are closed loops)  
 2)  $f$  has no singularities between  $\Gamma_1$  &  $\Gamma_2$

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