

$$\oint_{\partial G_\varepsilon(z)} \frac{f(\xi)}{\xi - z} \, \mathrm{d}\xi$$

$$\oint_{\partial G} \frac{f(\xi)}{\xi - z} \pm \underbrace{\int_{\Gamma_\varepsilon} \frac{f(\xi)}{\xi - z} \, \mathrm{d}\xi}_{=0}$$