

$$\bar{a} \neq 1: \int_0^{2\pi} \frac{dt}{1 - 2a \cos t + a^2} = \text{cst} \int_{\partial \mathbb{B}} \frac{dz}{(z - a) \left( z - \frac{1}{a} \right)}$$

$$\int_0^{\pi/2} \frac{dt}{1 + \sin^2 t} \text{ residue}$$

$$\mathbb{T} \xrightarrow[\text{+ diff}]{\gamma} \mathbb{C} \setminus \pm i \Rightarrow \text{alle moeglichen Werte} \int_{\gamma} \frac{dz}{1 + z^2}$$