· Holomaphic Junction · f(z) Ze ( is holomorphic if: f(z) = u(x,y) + i v(x,y)obve u(x,y)= Ref f(x)} v(x,y) = Im (f(2)}  $U_{x} = \frac{\partial u(x,y)}{\partial x}$ ,  $U_{y} = \frac{\partial v(x,y)}{\partial y}$  $U_{y} = \frac{\partial u(x,y)}{\partial y}, \quad V_{x} = \frac{\partial \sigma(x,y)}{\partial x}$ Se:  $\int U_{\infty} = V_{y}$  =>  $\int (z)$  is holomorphic ~ es: z+1 -> (x-1)+i(y) a = 3c = 1; 25 = y · Ux = 1 Vy = 1 -> Uzc = Ug · Uz = Ø Uy = Ø -> Uy = - Uy 3 Z+1 è donnorfa



