今纯函数

Indomorphic

- 万连遍开集

工和区域

$$\frac{1}{1+2} \cdot f(z) = z^2 \qquad f(z) = \overline{z} \qquad f(z) = \overline{z}$$

$$g(z) = \overline{2}$$

$$\xi_0 \in \Omega$$
, $\frac{f(\xi_0 + h) - f(\xi_0)}{h} = \frac{(\xi_0 + h)^2 - \xi_0^2}{h} = \frac{2h\xi_0 + h^2}{h} = 2\xi_0 + h$, $\to 2\xi_0$

$$\frac{g(2oth) - g(2o)}{h} = \frac{\bar{h}}{h} R \pi h \lim_{n \to \infty} \frac{1}{h}$$

$$\frac{g \circ f(z+h) - g \circ f(z)}{h} = \frac{g \circ f(z+h) - g \circ f(z)}{f(z+h) - f(z)} \frac{f(z+h) - f(z)}{f(z+h) - f(z)}$$

formal a derivourise

$$\frac{\partial}{\partial t} = \frac{1}{2} \left(\frac{\partial}{\partial x} - i \frac{\partial}{\partial y} \right)$$

$$\frac{\partial}{\partial \overline{z}} = \frac{1}{z} \left(\frac{\partial}{\partial x} + i \frac{\partial f}{\partial y} \right)$$

$$\overline{f(z)} = N(x-y) - \lambda V(x-y)$$

$$\overline{f(z)} = \mu(x,y) - \nu(x,y)$$

$$f(z) = \mu(x,y) - i\nu(x,y).$$
We have $\frac{\partial f}{\partial z} = \frac{\partial f}{\partial \overline{z}}$ check

$$\frac{\partial f}{\partial x} = \frac{1}{2} \left(\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} \right) + i \left(\frac{\partial x}{\partial x} - \frac{\partial y}{\partial y} \right)$$

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$$=\frac{1}{2}\left(\frac{3u}{3x}+\frac{3v}{3y}\right)+i\left(\frac{3u}{3y}-\frac{3v}{3y}\right)$$

$$=\frac{1}{2}\left(\frac{3u}{3x}+\frac{3v}{3y}\right)-i\left(\frac{3u}{3y}-\frac{3v}{3y}\right)$$

$$X = \frac{1}{2} (2 + 5)$$

图. 2. 2 形式上科系 满足偏等的名种性质