Continuity of f(z) A single valued function $f(z)$ is said to be continuous at a point $z = z_0$ if $f(z)$ is exist $\lim_{z \to z_0} f(z)$ exist and $\lim_{z \to z_0} f(z) = f(z_0)$

Derivative of f(z) Let $w = f(z)$ be a single-valued function of the variable $z = (x, y)$. Then the derivative or diff. co-efficient of $w = f(z)$ is defined as.

$$\frac{dw}{dz} = f'(z) = \lim_{\delta z \to 0} \frac{f(z+\delta z) - f(z)}{\delta z} = \frac{\partial u}{\partial x} + i\frac{\partial v}{\partial x}$$

Analytic function A function $f(z)$ is said to be Analytic at a point z_0 if it is one valued and differentiable not only at z_0 but at a every point of some neighbourhood of z_0

Entire function → A function $f(z)$ which is analytic at every point of the finite complex plane is called an entire function.

Necessary condition for $f(z)$ to be Analytic. [$w = f(z) = u(x,y) + iv(x,y)$]

(i) $\frac{\partial u}{\partial x}, \frac{\partial u}{\partial y}, \frac{\partial v}{\partial x}, \frac{\partial v}{\partial y}$ are continuous function of x and y in the Region R.

(ii) $\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y}$ & $\frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x}$ → Cauchy-Riemann Equation ⇔ CR Equation

CR eqn in polar form

$$\frac{\partial u}{\partial r} = \frac{1}{r}\frac{\partial v}{\partial \theta} \quad \text{and} \quad \frac{\partial v}{\partial r} = -\frac{1}{r}\frac{\partial u}{\partial \theta}$$

Harmonic function
A function of x, y which possess continuous partial derivative of the first and second order and satisfies Laplace's equation is called a Harmonic function.

$v(x, y)$ is $dv = \frac{\partial v}{\partial x}dx + \frac{\partial v}{\partial y}dy$

MILNE'S THOMSON METHOD FOR CONSTRUCTION OF ANALYTIC FUNCTION

(1) When u is given

find $\frac{\partial u}{\partial x} = \phi_1(x,y) = \phi_1(z,0)$

$\frac{\partial u}{\partial y} = \phi_2(x,y) = \phi_2(z,0)$

$$f(z) = \int [\phi_1(z,0) - i\phi_2(z,0)]\,dz + c$$

(2) When v is given

find $\frac{\partial v}{\partial y} = \psi_1(x,y) = \psi_1(z,0)$

$\frac{\partial v}{\partial x} = \psi_2(x,y) = \psi_2(z,0)$

$$f(z) = \int [\psi_1(z,0) + i\psi_2(z,0)]\,dz + c$$

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