

Introductory Complex Analysis Cheat Sheet

Field of Complex Numbers

Complex numbers form a field under addition and multiplication. The following properties hold:

- Associativity:** $(z_1 + z_2) + z_3 = z_1 + (z_2 + z_3)$ and $(z_1 z_2) z_3 = z_1 (z_2 z_3)$
- Commutativity:** $z_1 + z_2 = z_2 + z_1$ and $z_1 z_2 = z_2 z_1$
- Distributivity:** $z_1(z_2 + z_3) = z_1 z_2 + z_1 z_3$ and $(z_1 + z_2)z_3 = z_1 z_3 + z_2 z_3$
- Identity:** $z + 0 = z$ and $z \cdot 1 = z$
- Inverses:** $z + (-z) = 0$ and $z \cdot z^{-1} = 1$ for $z \neq 0$

Complex Conjugation

Complex conjugation is defined as $\bar{z} = x - iy$ for $z = x + iy$. Key properties include:

- $\overline{\bar{z}} = z$
- $\overline{z_1 + z_2} = \bar{z}_1 + \bar{z}_2$
- $\overline{z_1 z_2} = \bar{z}_1 \bar{z}_2$
- $\overline{z^{-1}} = (\bar{z})^{-1}$
- $\overline{z^n} = (\bar{z})^n$

Complex Plane

The complex plane is a 2D coordinate system where the horizontal axis is the real axis and the vertical axis is the imaginary axis.

- Points:** $z = x + iy$ is represented by the point (x, y) .
- Modulus:** $|z| = \sqrt{x^2 + y^2}$ is the distance from the origin to the point z .
- Argument:** $\arg(z)$ is the angle measured counter-clockwise from the positive real axis to the line segment connecting the origin to z .

Complex Functions

A complex function $f: D \rightarrow \mathbb{C}$ maps a domain $D \subset \mathbb{C}$ to a codomain \mathbb{C} .

- Injective:** $f(z_1) = f(z_2) \implies z_1 = z_2$
- Surjective:** For every $w \in \mathbb{C}$, there exists $z \in D$ such that $f(z) = w$.
- Bijective:** Both injective and surjective.

Complex Analysis

Contour Integration: Integrating a function $f(z)$ along a path γ in the complex plane.

Cauchy's Theorem: If $f(z)$ is analytic in a simply connected domain D , then the integral of $f(z)$ over any closed contour in D is zero.

Möbius Transformations

Möbius transformations are conformal maps of the form $f(z) = \frac{az + b}{cz + d}$ with $ad - bc \neq 0$.

- They map circles and lines to circles and lines.
- They preserve orientation.
- They map the upper half-plane to the interior of the unit disk.

Residues

Residue: The coefficient of $(z - z_0)^{-1}$ in the Laurent series expansion of $f(z)$ around a pole z_0 .

Residue Theorem: The integral of $f(z)$ over a closed contour is $2\pi i$ times the sum of residues inside the contour.

Integration

Contour Deformation: Integrals of analytic functions are invariant under deformation of the contour.

Key Integrals:

$$\int_{-\infty}^{\infty} \frac{1}{z^2 + a^2} dz = \frac{\pi}{a}$$

$$\int_{-\infty}^{\infty} \frac{1}{z^2 + 1} dz = \pi$$

Series

Power Series: $f(z) = \sum_{n=0}^{\infty} a_n (z - z_0)^n$ converges in a disk centered at z_0 .

Laurent Series: $f(z) = \sum_{n=-\infty}^{\infty} a_n (z - z_0)^n$ converges in an annulus around z_0 .

Complex Functions

Analyticity: A function $f(z)$ is analytic at z_0 if it has a unique power series expansion around z_0 .

Open Mapping Theorem: A non-constant analytic function maps open sets to open sets.

Maximum Modulus Principle: The maximum of $|f(z)|$ on a closed disk is attained on the boundary.

Integration

Cauchy's Integral Formula:

$$f(z) = \frac{1}{2\pi i} \int_{\gamma} \frac{f(\zeta)}{\zeta - z} d\zeta$$

Residue Calculation:

$$\text{Res}(f, z_0) = \lim_{z \rightarrow z_0} (z - z_0) f(z)$$

Series

Power Series Expansion:

$$f(z) = \sum_{n=0}^{\infty} \frac{f^{(n)}(z_0)}{n!} (z - z_0)^n$$

Laurent Series Expansion:

$$f(z) = \sum_{n=-\infty}^{\infty} a_n (z - z_0)^n$$

Integration

Contour Deformation:

$$\int_{\gamma} f(z) dz = \int_{\gamma'} f(z) dz$$

Key Integrals:

$$\int_{-\infty}^{\infty} \frac{1}{z^2 + a^2} dz = \frac{\pi}{a}$$

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web combinational circuits are built of five basic logic gates and gate output is 1 if both inputs are 1 or gate output is 1 if at least one input is 1 xor gate output is 1 if only one input is 1 nand gate output is 1 if at least one input is 0 nor gate output is 1 if both inputs are 0

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web out the time this project will do so using a by showing each decimal digit of sexagesimal time as a binary value this design will be primarily functioning on logic gates and would involve the use of several basic components that include but are not limited to integrated circuits or ics light emitting diodes leds and resistors

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