

Introductory Complex Analysis Cheat Sheet

Field of Complex Numbers

We construct the field of complex numbers in the following quotient ring, $\mathbb{C} = \mathbb{R}[i]/(i^2 + 1)$.

Algebra of Complex Numbers

- Addition: $(a + bi) + (c + di) = (a + c) + (b + d)i$
- Multiplication: $(a + bi)(c + di) = (ac - bd) + (ad + bc)i$
- Division: $\frac{a + bi}{c + di} = \frac{(a + bi)(c - di)}{(c + di)(c - di)} = \frac{(ac + bd) + (bc - ad)i}{c^2 + d^2}$
- Square root: $\sqrt{a + bi} = z = \left(\sqrt{\frac{|a + bi| + a}{2}} + i \sqrt{\frac{|a + bi| - a}{2}} \right)$
- $\overline{a + bi} = a - bi$, $|a + bi|^2 = a^2 + b^2$

Conjugation, Absolute Value

- **Complex conjugation:** $\overline{z + w} = \overline{z} + \overline{w}$
 $\overline{z \cdot w} = \overline{z} \cdot \overline{w}$
 $\overline{\overline{z}} = z$
 Geometrically, conjugation is reflection over the real axis.
- **Absolute value:** $|z| = \sqrt{z \overline{z}}$
 $|z| = |z| \cdot |w|$
 $|z + w| \leq |z| + |w|$
 $|z - w| \geq |z| - |w|$
 $|z + w|^2 = |z|^2 + |w|^2 + 2\operatorname{Re}(z \overline{w})$
 $|z - w|^2 = |z|^2 + |w|^2 - 2\operatorname{Re}(z \overline{w})$
 $|z + w|^2 + |z - w|^2 = 2(|z|^2 + |w|^2)$
 The absolute value function turns the metric on $\mathbb{C}$ to complete under this metric.

Basic Topological Definitions in $\mathbb{C}$

Some basic results:

- For $a_0 \in \mathbb{C}$, $r > 0$ we denote the ball (i.e. disk) of radius r around a_0 to be $B(a_0, r) = \{z \in \mathbb{C} : |z - a_0| < r\}$.
- A point $z \in \mathbb{C}$ is a **limit point** of $E \subseteq \mathbb{C}$ if $W \cap E \setminus \{z\} \neq \emptyset$, $B(z, r) \cap E$ contains a point other than z .
- A subset $E \subseteq \mathbb{C}$ is said to be **open** if $\forall z \in E, \exists r > 0$ s.t. $B(z, r) \subseteq E$.
- A subset $E \subseteq \mathbb{C}$ is said to be **closed**, if E^c is open in $\mathbb{C}$, or equivalently z is which contains all its limit points.

Some properties of open sets:

- $\mathbb{C}$ and $\emptyset$ are open subsets of $\mathbb{C}$.
- All finite intersections of open sets are open sets.
- The collection of all open sets on $\mathbb{C}$ form a topology on $\mathbb{C}$.

Interior, closure, density

- **Interior:** Let $E \subseteq \mathbb{C}$. The interior of E is defined as, E° is set of all interior points of E , or equivalently, $\bigcup \{B(z, r) : B(z, r) \subseteq E\}$.
- **Closure:** Let $E \subseteq \mathbb{C}$. The closure of E is defined as $\overline{E} = E \cup E'$, $E' = E^c \cap E^c$ is closed in $\mathbb{C}$.
- **Density:** Let $E \subseteq \mathbb{C}$, the closure of E is $\overline{E}$. Then E is called dense in $\overline{E}$.

Path: A path is a metric space from a point $a \in \mathbb{C}$ to $b \in \mathbb{C}$ is a continuous mapping $\gamma : [0, 1] \rightarrow \mathbb{C}$ s.t. $\gamma(0) = a$ and $\gamma(1) = b$.

Separated and Connected

For a metric space (X, d) ,

- **Separated:** X is separated if it disjoint non-empty open subsets A, B of X s.t. $X = A \cup B$.
- **Connected:**
 - X is connected if it has no separation.
 - X is connected $\iff X$ does not contain a proper subset of X which is both open and closed in X .
 - Continuous functions preserve connectedness.
 - An open subset $U \subseteq \mathbb{C}$ is connected $\iff$ for $z_1, z_2 \in U$, there exists a path from z_1 to z_2 .

Basic Topological definitions in $\mathbb{C}$ space

Open (event): Let (X, d) be a metric space and E be a collection of open sets in X . We say that E is an open event of a subset $K \subseteq X$, if $K \subseteq \bigcup \{E : E \in \mathcal{E}\}$. **Compactness:** For subset $K \subseteq X$ is compact if for every open cover $\mathcal{E}$ of K , there exists $E_1, \dots, E_n \in \mathcal{E}$ s.t. $K \subseteq \bigcup_{i=1}^n E_i$. K is compact if it has a finite open cover.

- In a metric space, a compact set is closed.
- A closed subset of a compact set is closed.

Limit point compact: We say a metric space X is limit point compact if every infinite subset of X has a limit point.

- If X is a compact metric space, then it is also limit point compact.
- **Sequentially compact:** We say a metric space X is sequentially compact if every sequence has a convergent subsequence.
- If X is limit point compact then X is sequentially compact.
- Let X be sequentially compact, then X is a compact metric space.

Lebesgue number lemma: Let X be sequentially compact, and let $\mathcal{W}$ be an open cover of X . Then $\exists \delta > 0$ s.t. for $z \in X$, $\forall z \in W$ s.t. $B(z, \delta) \subseteq W$.

Isometries on the Complex Plane

A function $f : \mathbb{C} \rightarrow \mathbb{C}$ is called an **isometry** if $|f(z) - f(w)| = |z - w|$, $\forall z, w \in \mathbb{C}$.

- Let f be an isometry s.t. $f(0) = 0$, then the linear product $\langle f(z), f(w) \rangle = \langle z, w \rangle$, $\forall z, w \in \mathbb{C}$.
- If f is an isometry s.t. $f(0) = 0$ then f is a linear map.
- The standard isometry for $z = a + bi \in \mathbb{C}$, $\arg(z + bi) = \tan^{-1} \frac{b}{a}$.

Functions on the Complex Plane

Uniform convergence: Let $M \subseteq \mathbb{C}$ and $f_1, \dots, f_n : D \subseteq \mathbb{C} \rightarrow \mathbb{C}$ be a set of functions on D . We say, $\{f_n\}_{n \in \mathbb{N}}$ converges uniformly to f if given $\epsilon > 0$, for $N \in \mathbb{N}$ s.t. $|f_n(z) - f(z)| < \epsilon, \forall z \in D$ and $n \geq N$.

Complex exponential: For $z \in \mathbb{C}$, $\exp(z) = \sum_{n=0}^{\infty} \frac{z^n}{n!}$.

Trigonometric functions: For $z \in \mathbb{C}$, $\cos(z) = \frac{\exp(iz) + \exp(-iz)}{2}$ and $\sin(z) = \frac{\exp(iz) - \exp(-iz)}{2i}$.

Hyperbolic trigonometric functions: For $z \in \mathbb{C}$, $\cosh(z) = \frac{\exp(z) + \exp(-z)}{2}$ and $\sinh(z) = \frac{\exp(z) - \exp(-z)}{2}$.

Complex Differentiability

Complex differentiable: Let $U \subseteq \mathbb{C}$ and $f : U \rightarrow \mathbb{C}$, we say that f is complex differentiable at a point $z_0 \in U$ if z_0 is an interior point and the following limit exists $\lim_{z \rightarrow z_0} \frac{f(z) - f(z_0)}{z - z_0}$. The limit is denoted as $f'(z_0)$ or $\frac{df}{dz}$.

Bi-holomorphic functions: If $f : U \rightarrow \mathbb{C}$ is complex differentiable at every point $z \in U$, then f is said to be a bi-holomorphic on U . **Entire functions:** Functions which are complex differentiable on $\mathbb{C}$ are called entire functions.

- Complex differentiability implies continuity.
- Complex derivatives of a function are linear transformations.
- **Product rule:** If $f, g : U \rightarrow \mathbb{C}$ are complex differentiable at $z_0 \in U$. Then fg is complex differentiable at z_0 with derivative $f'(z_0)g(z_0) + f(z_0)g'(z_0)$.
- **Quotient rule:** If $f, g : U \rightarrow \mathbb{C}$ are complex differentiable at $z_0 \in U$, and g doesn't vanish at z_0 . Then $\left(\frac{f}{g}\right)'(z_0) = \frac{f'(z_0)g(z_0) - f(z_0)g'(z_0)}{g(z_0)^2}$.
- **Chain rule:** If $f : U \rightarrow \mathbb{C}$ and $g : D \rightarrow U$ are complex differentiable at $z_0 \in D$, and $f'(g(z_0)) \neq 0$. Then $g'(z_0)f'(g(z_0)) = f'(f(g(z_0)))$.

Power Series

Formal Power Series: A formal power series around $z_0 \in \mathbb{C}$ is a formal expression $\sum_{n=0}^{\infty} a_n(z - z_0)^n$, where $a_n \in \mathbb{C}$ and z is indeterminate.

Radius of convergence: For a formal power series $\sum_{n=0}^{\infty} a_n(z - z_0)^n$ the radius of convergence $R \in [0, \infty]$ given by $R = \lim_{n \rightarrow \infty} |a_n|^{-1/n}$. Using the ratio test is identical (i.e. $R = \lim_{n \rightarrow \infty} \left| \frac{a_n}{a_{n+1}} \right|$).

- The series converges absolutely when $z \in B(z_0, R)$, and for $z \in R$, the series converges uniformly, else if $z = z_0 + R$ the series diverges.
- Let $z \in \mathbb{C}$ s.t. $|z - z_0| = R$, then $\exists$ infinitely many $n \in \mathbb{N}$ s.t. $|a_n|^{1/n} \rightarrow |z - z_0|$.

Abel's Theorem: Let $f(z) = \sum_{n=0}^{\infty} a_n(z - z_0)^n = a_0 + \dots$ be a power series with a positive radius of convergence R , suppose $z_1 = z_0 + R e^{i\theta}$ for a point $\theta \in \mathbb{R}$, $f(z_1)$ converges. Then $\lim_{z \rightarrow z_1} f(z) = (z_1 - z_0)^{-1} = f(z_1)$.

Differentiation of Power Series

Let $f(z) = \sum_{n=0}^{\infty} a_n(z - z_0)^n = a_0 + \dots$ be a power series around z_0 with a radius of convergence R . Then f is **holomorphic** in $B(z_0, R)$.

- $f'(z) = \sum_{n=1}^{\infty} n a_n(z - z_0)^{n-1}$ with same radius of convergence R .
- $a_0 = f(z_0)$

Cauchy product of two power series: For power series $f(z) = \sum_{n=0}^{\infty} a_n(z - z_0)^n$ and $g(z) = \sum_{n=0}^{\infty} b_n(z - z_0)^n$ with degree of convergence at least R . Then the Cauchy product $f(z)g(z) = \sum_{n=0}^{\infty} c_n(z - z_0)^n$ where $c_n = \sum_{k=0}^n a_k b_{n-k}$ also has degree of convergence at least R .

Cauchy-Riemann Differential Equations

For a complex function $f(z) = u(x, y) + i v(x, y)$,

$$f'(z) = \frac{\partial f}{\partial z} = \frac{\partial u}{\partial x} + i \frac{\partial v}{\partial x} = \frac{\partial u}{\partial z} + i \frac{\partial v}{\partial z}$$

Therefore, we get the two **Cauchy-Riemann Differential equations**,

$$\frac{\partial u}{\partial x} = \frac{\partial v}{\partial y}, \quad \frac{\partial u}{\partial y} = -\frac{\partial v}{\partial x}$$

A function is **holomorphic** if it satisfies the Cauchy-Riemann equations.

Wirtinger Derivatives:

$$\frac{\partial}{\partial z} = \frac{1}{2} \left(\frac{\partial}{\partial x} - i \frac{\partial}{\partial y} \right), \quad \frac{\partial}{\partial \bar{z}} = \frac{1}{2} \left(\frac{\partial}{\partial x} + i \frac{\partial}{\partial y} \right)$$

If f is holomorphic at z_0 then $\frac{\partial f}{\partial \bar{z}} = 0$ and $f'(z_0) = \frac{\partial f}{\partial z}(z_0) = \frac{\partial f}{\partial z}(z_0)$.

Harmonic Functions

Laplace's Delta: $\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}$.

Harmonic functions: Let $u : U \rightarrow \mathbb{R}$ be a twice differentiable function. We say that u is a harmonic function if $\Delta u = 0$.

For any holomorphic function f , $\operatorname{Re}(f)$, $\operatorname{Im}(f)$ are examples of harmonic functions, but there are harmonic functions which are not holomorphic.

Boundary of a set: For a metric space $(X, d) \in \mathbb{R}$,

the boundary of $U = \partial U = \overline{U} \cap U^c$.

Maximum principle for harmonic functions: Let $u : U \rightarrow \mathbb{R}$ be a twice differentiable harmonic function. Let $K \subseteq U$ be a compact sub set of U . Then, $\max_{K \cap U} u(x) = \max_{\partial K \cap U} u(x)$ and $\min_{K \cap U} u(x) = \min_{\partial K \cap U} u(x)$.

Maximum principle for holomorphic functions: Let $U \subseteq \mathbb{C}$ be open and connected and let $f : U \rightarrow \mathbb{C}$ be a holomorphic function. Then, for compact $K \subseteq U$, we have, $\max_{K \cap U} |f(z)| = \max_{\partial K \cap U} |f(z)|$.

Harmonic conjugates: Let $u : U \rightarrow \mathbb{R}$ be a twice differentiable harmonic function. We say that $v : U \rightarrow \mathbb{R}$ is a harmonic conjugate of u if $f = u + iv$ is holomorphic.

- For a harmonic function from $\mathbb{C}$ to $\mathbb{R}$, there exists a uniquely determined harmonic conjugate from $\mathbb{C}$ to $\mathbb{R}$ (up to constant).

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Tristan Needham



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mar 18 2015 objective create a model of earth using an egg so that the movement of lithospheric and asthenospheric

material can be observed problem what happens to the asthenosphere as lithospheric plates move at the three types of plate boundaries hypothesis read through all of the procedures and record a hypothesis about the activity below

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apr 15 2019 tectonic egg lab 1 did the experiment support your hypothesis using the data from your experiment describe why you believe your hypothesis was either proved or disproved yes because this is an experiment to show how plate tectonics work 2 if the egg is a model of earth what does each part of the egg represent

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during the experiment i learned that each tectonic plate boundary have different functions convergent boundary destroys divergent boundary forms and transform boundary just pass each other like i witnessed in the experiment earth s tectonic

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hypertonic egg lab 642 words3 pages when using a hypertonic and hypotonic solutions they can be shown in many different ways one way we showed this is putting an egg in corn syrup the purpose of this lab is that students can observe and predict what is happening to an egg when you put it in hypertonic and hypotonic environments the

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sep 25 2021 how did your hypotheses of your tectonic egg model compare to your experimental results what are some shortcomings of using this model as a replicable of the earth suggest a way that a scientist could create a more accurate model of

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the egg in this experiment won t split into two but you will see what happens to a cell when it swells and when it cannot absorb its surroundings materials water vinegar corn syrup eggs 3 containers to hold the eggs experimental procedure take the containers and fill them with vinegar and a bit of water put all 3 eggs in them

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4 11 lab exercise part f this page contains the lab exercise regarding the mechanisms of plate tectonic 4 12 student responses the following is a summary of the questions in this lab for ease in submitting answers online

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