

Stereographic projection determines a one-to-one correspondence between the unit sphere in \mathbb{R}^3 minus the north-pole, S , and the complex plane via the correspondence

$$z \mapsto \frac{x_1 + ix_2}{1 - x_3},$$

$$x_1 = \frac{2 \operatorname{Re} z}{1 + |z|^2}, \quad x_2 = \frac{2 \operatorname{Im} z}{1 + |z|^2}, \quad x_3 = \frac{|z|^2 - 1}{|z|^2 + 1}.$$

If we define $\mathbb{C}_\infty = \mathbb{C} \cup \{\infty\}$, then we have a one-to-one correspondence between S and \mathbb{C}_∞ . This allows us to define a metric on \mathbb{C}_∞ , which is given by

$$d(z_1, z_2) = \frac{2|z_1 - z_2|}{\sqrt{(1 + |z_1|^2)(1 + |z_2|^2)}}, \quad d(z, \infty) = \frac{2}{\sqrt{1 + |z|^2}}.$$

II. ELEMENTARY PROPERTIES AND EXAMPLES OF ANALYTIC FUNCTIONS

For $z \neq 1$, $\sum_{n=0}^N z^n = (1 - z^{N+1})/(1 - z)$. Therefore the geometric series $\sum_{n=0}^{\infty} z^n$ converges (to $1/(1 - z)$) if $|z| < 1$. It clearly diverges, in fact its terms become unbounded, if $|z| > 1$.

Weierstrass M-Test. Let M_0, M_1, \dots be positive numbers with $\sum M_n < \infty$ and suppose that $f_n : X \rightarrow \mathbb{C}$ are functions on some set X satisfying $\sup_{x \in X} |f_n(x)| \leq M_n$. Then $\sum_{n=0}^{\infty} f_n(x)$ is absolutely and uniformly convergent.

Theorem. Let $a_0, a_1, \dots \in \mathbb{C}$ be given and define the number R by

$$\frac{1}{R} = \limsup |a_n|^{1/n}.$$

Then (1) for any $a \in \mathbb{C}$ the power series $\sum_{n=0}^{\infty} a_n(z - a)^n$ converges absolutely for all $|z - a| < R$ and it converges absolutely and uniformly on the disk $|z - a| \leq r$ for all $r < R$. (2) The sequence $a_n(z - a)^n$ is unbounded for all $|z - a| > R$ (and hence the series is certainly divergent).

Thus we see that the set of points where a power series converges consists of a disk $|z - a| < R$ and possibly a subset of its boundary. R is called the radius of convergence of its series. The case $R = \infty$ is allowed.

Proof of theorem. For any $r < R$ we show absolute uniform convergence on $D_r = \{|z - a| \leq r\}$. Choose $\tilde{r} \in (r, R)$. Then, $1/\tilde{r} > \limsup |a_n|^{1/n}$, so $|a_n|^{1/n} < 1/\tilde{r}$ for all n sufficiently large. For such n , $|a_n| < 1/\tilde{r}^n$ and so

$$\sup_{z \in D_r} |a_n(z - a)^n| < (r/\tilde{r})^n.$$

Since $\sum (r/\tilde{r})^n < \infty$ we get the absolute uniform convergence on D_r .

If $|z - a| = r > R$, take $\tilde{r} \in (R, r)$. Then there exist n arbitrarily large such that $|a_n|^{1/n} \geq 1/\tilde{r}$. Then, $|a_n(z - a)^n| \geq (r/\tilde{r})^n$, which can be arbitrarily large. \square

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Puja Mehta



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