

0.1 Convergence

If $x = c$ then the power series will be equal to a_0 .

For other values the power series may not converge.

0.1.1 Cauchy-Hadamard theorem

Radius of convergence:

$$\frac{1}{R} = \limsup_{n \rightarrow \infty} (|a_n|^{\frac{1}{n}})$$