

7

Root Test

Series: $\sum_{n=1}^{\infty} a_n$

Condition of Convergence:

$$\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} < 1$$

Condition of Divergence:

$$\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} > 1$$

* Test *inconclusive* if

$$\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} = 1$$

ROOT TEST

Is $\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} \neq 1$? — YES

