Lecture 13

Tuesday, April 25, 2023 8:05 AM

* Questions ---

Absolutely convergent series: 2 | and < 00

Conditionally convergent series: $\sum a_n$ converges, but $\sum |a_n| = \infty$.

* Root Test

$$L = \lim_{n \to \infty} \left| \frac{a_{n+1}}{a_n} \right|$$

If L<1 then I am absolutely converges

Is L>1 then Zan diverges.

L21: inconclusive (Test fails)

$$\frac{1}{2} \frac{(-1)^n}{n}$$

$$\sum \frac{2^n}{n!}$$

$$\sum \frac{2^n}{\ln!}$$

* Rust Test

$$\frac{1}{2} \frac{2^n}{h^n}$$

$$\frac{2^{n^2}}{n^2}$$