$|a| = \frac{1}{n} \frac{smn}{n^2} + \frac{smn}{n^2} = \frac{smn}{n^2}$ $|a| = \frac{smn}{n^2} < \frac{1}{n^2} = \frac{1}{n^2} + \frac{1}{n^2} +$ $\Rightarrow \frac{+\infty}{N=1} \left| \frac{8mn}{N^2} \right| h t M \Rightarrow \frac{+\infty}{N=1} \frac{8mn}{N^2} \frac{8mn}{N^2} \frac{h \cdot h \cdot h \cdot h \cdot h \cdot h}{N^2} \frac{1}{N^2+1}$ $h = 2 \frac{+\infty}{N^2+1} \frac{1}{N^2+1} \frac{1}{N^2+1$ De flag $a_n > 0 + n \in [2, +\infty)$, fin $a_n = 0$. Xed have $f(n) = \frac{\chi}{\chi^2 + 1}$ then f(n) = 0. mà lai co: N=2 > In=2 land pky (theo her chuẩn ss trấy dướn) $\frac{1}{n-2} = \frac{1}{(n-1)^{n}} = \frac{1}{(n-1)^{n}}$

 $\sum_{n=2}^{+\infty} \frac{(-1)^n}{(n+1)^n} = \sum_{n=2}^{+\infty} \frac{(-1)^n \cdot (n-1)^n}{(n+1)^n} = \sum_{n=2}^{+\infty} \frac{1}{(-1)^n}$ De thay \sum 1 n=2 1 to play (theo trên chuẩn tp) \(\frac{+\infty}{\sum_{n=2}} \in \frac{\sqrt{n}}{n+1} \frac{\sqrt{n}}{\sqrt{n}} \tag{\left} \text{chuosi otam olain } \(\lambda_n = \frac{\sqrt{n}}{n+1} > 0 \) \(\frac{\sqrt{n} \in \(\lambda_n \)}{\sqrt{n}} \)
\(\lambda_n = 0 \) \(\lambda_n \) \(\ $\sum_{N=2}^{+\infty} \frac{(-1)^N}{\sqrt{n} + (-1)^N} pky$ $\sum_{N=2}^{+\infty} |a_N| = \sum_{N=2}^{+\infty} \frac{1}{\sqrt{n+(-1)^n}} \text{ pky the then chuẩn}$ So sais $\frac{1}{\sqrt{n+f-1}} \xrightarrow{n\to +\infty} \frac{1}{\sqrt{n}} \xrightarrow{n=2} \frac{1}{\sqrt{n}} \xrightarrow{p \nmid q} \frac{1}{\sqrt{n}}$ 10 HTTD, k° Bain HT, 8m(n. Vn2+1), Xet an= sm(n. Vn2+1) = Sm ((n \(\text{N}^2 + 1 - nn \) + nn) = sm (nvn+1-17.n), (03(nn)+ (03(nvn+1-17n) (-1) Sm (nT) $= (-1)^{N}$, 8m (n. $\sqrt{N^{2}+1}$ - \ln) $\sum_{n} Q_{n} = \sum_{n} (-1)^{n} Sm(+1.(\sqrt{n^{2}+1}-n)) voi V_{n} Sm(-1)$ Taci: Un>0+n∈[1+100), lim Un = him 8m (0,11)=0. \times ét $f(\alpha) = Sm(n.(x^2+1-x))$ có $f(\alpha) = n.(03(n(x^2+1-x)).(x^2+1-x))$

De thay I'au <0 +x (I, to) > Un grain Lain có lehi $n \to +\infty$ 8m $(\pi.(\sqrt{n^2+1}-n)) \sim \frac{17}{\sqrt{n^2+1}+n} \sim \frac{17}{2\sqrt{n^2}} \frac{1}{2n}$ má $\frac{+\infty}{n=1} \frac{1}{2n} \frac{1}{2n} \frac{1}{2n}$ Iring bay goi y: từ trus bay: $\cos\left(\frac{\pi n^2}{n+4}\right) = \cos\left(\frac{\pi(n^2-1)+\pi}{n+1}\right) = \cos\left((n-1)\pi + \frac{\pi}{n+4}\right)$ $\frac{+\infty}{N=2} = (-1)^{N-1} \cdot (08 \left(\frac{n}{n+1}\right) \quad (08 \left(\frac{n}{n+1}\right)$ $\lim_{n\to +\infty} C_n = 0 ; C_n$