Doubt Nerrion - 2 10.11.2022 Early in Q. $\Leftrightarrow \lim_{n\to\infty} |a_n - b_n| = 0.$ · equivolonce relation.

-> gines equivolonce dosso. (all coulony near in Q) 2 ∈ Q < → 39,9,7,--- \

In Mal > 1

 $\frac{n}{n+n} \geq \frac{n}{n+n}$ September 15 Noi

Ext -> not open.

Fal= [x,1]

 $\frac{A}{A} = \frac{1}{1}R.$ $\frac{1}{2} = \frac{1}{2}R.$ $\frac{1}{2} = \frac{1}{2}R.$

(0, 1) -> open ??? To, 1) -> open X. Q -> Stor X $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ B = R - Janeal of B-Oson. (o) I all de la Co [1,2] -> Jones / D -> Sored X Sat - Jas H-> Sorred

[a, 6] Jan., Josed. The sport of Shoot Connedal SR

tem o'n = > anyo Un. 7+6° < 1 ... マミンとし: / 0" - Y/~60 + 4>N. $Q \sim 10^{10} \text{ M} \sim 10^{10}$ 0 < Olm < [2+8], 4n>N. 9 171. 8010. J. 9-6,71. 4-EN AUSN $\Rightarrow /\lambda - \varepsilon_1) < q_n$ $\forall n \geq N$

Every cauchy seg. conv. in R. fant -> couchy reg. -> Bounded Barine 1.2, -- Journal S.D. Bostano Weinstano Shr: Ran a Dimit pt ajain: of on for .

 $\begin{cases} 2, 0, 1+\frac{1}{2}, -1+\frac{1}{2}, -1-\frac{1}{2} \end{cases}$

· Vin Sinx = Sinc. (Sin 1 - Sinc) = 2 con 1+c Sin 1-c < 2 | Sh 1-c/ $\leq |\chi - \zeta|$. Sanx-Sanc/CE

 $Q^{\nu+} = Q^{\nu} + Q^{\nu-1}$ Suppose, So an - 3 conv. John 9man = Liman + Kiman Onatation of real no. John Q

Xim F(i) = >1, Sim P(i) = >2. 20 / 200) = 3, 22. $\sum_{n} \lim_{n \to \infty} a_n = \lambda_1 \quad \lim_{n \to \infty} b_n = \lambda_2$ Then. Sim On by = 2, 2. To plote Fix Eyon, to get Nort. $|a_nb_n-1,2| \leq 4n \geq N$. File. $|a_n-J_1| \leq \epsilon_{2} |J_2| + n \geq N_1$ $|b_n-J_2| \leq \epsilon_{2} |J_2| + n \geq N_2$.

 $AN = Max^2N_1, N_2$. Then. n>N => /an-7, / < 8/2/12 $4/p^{2} < 6$ Janon-2,22 $= |a_n b_n - a_n s_2 + a_n s_2 - s_1 s_2|$ $\leq |\alpha_n| |b_n - \lambda_2| + |\lambda_2| |\alpha_n - \lambda_1|$ $\leq M \left| b_n - \lambda_2 \right| + \left| \lambda_2 \right| \left| \alpha_n - \lambda_1 \right|.$ L & + & = E. An>N.

₹0,1\$ ±,1-5,5,... $a_n \rightarrow \lambda$. A = SightarmoreBan 1 a J. Myor In EMOS. MX>1. \mathcal{N} , o's

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· Rudin - Principle of Apointol - Analysis.