Terpena Pyolenu gur pagot. Zann = 2 & ann), eun pag ex. adeoute 7 tro.

Teopena a repensioneerum proof: Eum $\sum_{n=1}^{\infty} u \sum_{n=1}^{\infty} a \delta c \cdot c dopted$ to $\sum_{n=1}^{\infty} a_n \delta_n = \left(\sum_{n=1}^{\infty} a_n\right) \left(\sum_{n=1}^{\infty} \delta_n\right) = \sum_{n=1}^{\infty} \left(\sum_{n=1}^{\infty} a_n \delta_{s-n}\right)$

(3 lan) (5 lbml) = | 1 m (5 lbml)

(3) $\lim_{n \to \infty} \frac{1}{2} \frac{1}{2} |a_n \delta_m| = \frac{2}{2} |a_n \delta_m| |no compaction kare cynpactifically <math>\lim_{n \to \infty} \frac{1}{2} \frac{1}{2} |a_n \delta_m| = \frac{2}{2} |a_n \delta_m| |no compactifically <math>|a_n \delta_m| = \frac{2}{2} |a_n \delta_m| |no compactifically |no compactifically$

3norux are oray. $\underset{n,m=1}{\text{2}} nnbm = \lim_{N \to \infty} \underset{n,m=1}{\text{2}} anbm$

 $\frac{2}{5} |z|^n = \frac{1 - |z|^{N+1}}{1 - |z|} = \begin{cases} \frac{1}{1 - |z|}, |z| = 1 \end{cases}$

 $y_{mp} = \frac{8}{5} n_{2}^{n} = \frac{3}{11-3}$

Floperia Euro an= O(bn) u & bn ate exog, to & an - ate-exog.

Ø-60 |an | ∈ C | 6n | gua g-δ. n ate-oragine ver you zowerl san tra san han u aravor que En. ≥ lanl < C∑ lbnl < + ca >> (anl- exag. abconto the norm

Tyunghan keun qua exogunadu

P penn proj $\sum_{n=1}^{\infty} a_n = \lim_{n\to\infty} |a_n|^{1/N}$, ronga eun 0<1 To proj exception a>1 To proj paerag q>1 To prig paerag. q=1- re lyleato.

D-60) 1) Eur 9<1, p-pur Q 6(9, 1) roiga papla > Q porierroe muio par => => |an|1/n < Q que gon => pank Q"=> an< 0(Qh) =>

=> an - energyala. 2) $|a_n|^{1/n} > 1$ dece wrom pay => $|a_n| > 1$ - pay packaguaid.

Reg $\underset{n=1}{\text{Ean}}$ u myte apusablyet $\underset{n=\infty}{|\text{Im}|} \frac{a_{n+1}}{a_n} = q$ $q = \begin{cases} -1 & \text{exe} \\ -1 & \text{v} \end{cases}$ Teoperia, Rjustian Darandepa.

9-6. 1) 9<1-5 $Q \in [q,1]$ $\left|\frac{dnt}{dn}\right| \leq Q$ gut $g-\delta, n=N$

Do. 1) $q < 1 \Rightarrow Q \in [q, 1] \ \frac{|d_{n+1}|}{|d_{n}|} \leq Q \ q \land q \cdot \delta, n = N$ $|d_{n+1}| \leq Q |d_{n}|$ $|d_{n+1}| \leq Q |d_{n}|$ $|d_{n+1}| \leq Q |d_{n}|$ $|d_{n+1}| \geq Q |d_{n}|$ $|d_{n}| \geq Q |d_{n}|$ $|d_{n+1}| \geq Q |d_{n}|$ $|d_{n}| \geq Q$

Patriauerrox caequiate apprentional view nateg. u pages. $f_n: X \Rightarrow \mathbb{R}(\mathbb{C})$ Even $f(X) = \lim_{n \to \infty} f_n(X)$ to f_n caequiate $x \in \mathbb{R}$ however to

Onpequerue.) In cocaquer pabriamento R. f na unite X enur 54p2|fn(x)-f(x)|x6x3-50 n.500