(1) (2) $[a_n,b_n]$ $[a_{n+1},b_{n+1}]$ $[a_n]$ $[a_n$ $m_{n+1} = \frac{\alpha_n + \delta_n}{2}$ $f(m_{n+1}) = 0 \Rightarrow k_{\sigma_n \in G}$ $\begin{bmatrix} a_{n+1} & b_n \end{bmatrix} = \begin{bmatrix} a_n & b_n \end{bmatrix} = \begin{bmatrix} a_{n+1} & b_n \end{bmatrix} = \begin{bmatrix} a$ c) |en| < 2-n-1(6,-en), n>0 (d) $\frac{|b_{n+1}-a_{n+1}|}{|a_{n+1}|} = \frac{|b_0-a_0|}{|a_{n+1}|} = \frac{|b_0-a_0|}{|a_{n+1}|} = \frac{|b_0-a_0|}{|a_{n+1}|} = \frac{|b_0-a_0|}{|a_{n+1}|}$ 10 mp = en+1 => a> mn+1, a < 6n+1 1 9 - m mil I 18-an+1 5 | bn+1 - en+1 20 mn+1= 6 n+1 => 0 < mb, 0 > 0 n+1 1 x - mn+1 = | x - bn+1 = 1 bn+1-0 | 5 | bn+1 - en+1 Wige |en|= |a-month & |bn+1-en+1 \ \ \frac{60-00}{2^{n+1}} e) Shoriczony V

Nichoniczony X 2060

ANL -4 (2) |en | \le 2 - n - 1 (bo - ea) 2 200 1 Dla olargo E, stulmy teliego n, re len 1 4 El. $\frac{(b_0-a_0)}{2^{n+1}} \leq |\mathcal{E}| \qquad / \left(\frac{2^n}{\varepsilon}\right)$ (60-20) < 2" /log(1,2>1 les (60-e0) < n pule nEN

 $n = \left[\frac{2\epsilon}{3\epsilon} \right] = \frac{1}{3\epsilon}$

$$f) \times_{n} \in (0, \frac{1}{R}) \Rightarrow \times_{h+1} \in (\times_{n}, \frac{1}{R})$$

$$\times_{n} \in (0, \frac{1}{R}) \Rightarrow \times_{h+1} \in (\times_{n}, \frac{1}{R})$$

$$\times_{n} \in (0, \frac{1}{R})$$

$$0 < \times_{n} - \times_{n}^{2}R$$

$$0 < \times_{n} (1 - \times_{n}R)$$

$$\times_{n} \in (0, \frac{1}{R})$$

$$0 > \times_{n} \in (0, \frac{1}{R})$$

$$0 > \times$$