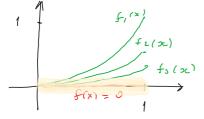
Tuesday, 30 November 2021 16:14

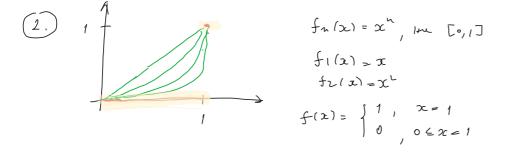
PABHOMEPHA KOHBEPTEHGUSA

$$\int_{M} (x) : A \longrightarrow IR, \quad n \in IN$$

$$IR$$

$$I[pumepu . (1) fn(x) = \frac{x^2}{n} , x \in [0,1]$$





ged. Kenturo ge trus fyttenginge fn: A → IR, ACIR puletomepto (1944, popmito) lootbegninge in \$\$-10, ACIR puletomepto also \$\$2>0 \$The \$\$ in \$\$ in \$\$ in \$\$ for \$\$ in \$\$ in \$\$ cuying \$\$ A also \$\$2>0 \$The \$\$ in \$\$ in \$\$ in \$\$ in \$\$ in \$\$ of \$\$ in \$\$ of \$\$ in \$\$ in \$\$ in \$\$ of \$\$ in \$\$ in \$\$ in \$\$ of \$\$ in \$ in \$\$ in \$\$ in \$\$ in \$\$ in \$ in \$\$ in \$\$ in

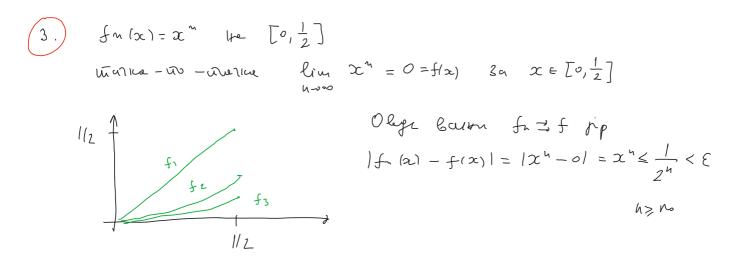
get. Kouterno ge this 
$$\phi_{ja}$$
 full nottepityte odurite (thanke-to-thanke)  
the  $\phi_{j}$  theory of the cupity A and  $\forall x \in A$   $\phi_{lik}$  cupate  
this fulled  $\rightarrow f(x)$   
 $R$   
 $R$ 

$$\begin{array}{cccc} y & \overline{J}punnepunne & 1 & fn(x) = \frac{x}{n} & \xrightarrow{n \to \infty} & 0 = f(x) & (\forall zc & puncupuno) \\ 2 & fn(x) = x^n \longrightarrow \begin{cases} 1 & zc = 1 \\ 0 & 0 \leq x < 1 \end{cases} = f(x) \end{array}$$

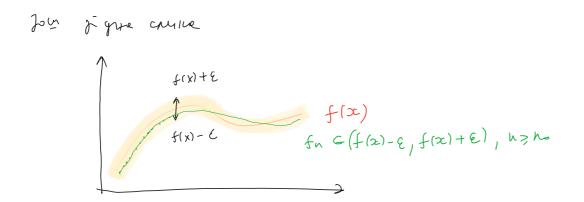
$$\begin{aligned} & \text{IRopfilse. } fn = f & \text{in } A = 7 \quad fn = f \quad o \\ & \text{Surrophyse. } in. in. in. \\ & \text{Lowers. } & \text{FE } \\ & \text{Jno} \quad \forall \\ & \text{Ham} \quad \forall \\ & \text{XE } A \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon \\ & & \text{Jno} \quad (fn(x) - f(x)) < \varepsilon$$

$$\begin{aligned} \text{Tpumepu} \quad (1, \quad f_n(x) = \frac{x^2}{n} \quad \Rightarrow \quad 0 = f(x) \quad , \text{ ite } [0,1] \\ \text{fip } \quad |f_n(x) - f(x)| = |\frac{x^2}{n}| \leq \frac{1}{n} \quad < \quad \varepsilon \quad \forall n \geq n > \frac{1}{\varepsilon} \\ \text{ficure poloto mpute} \end{aligned}$$

$$(2) \quad f_{n}(x) = \chi^{n} \frac{T \cdot \Pi \cdot T}{\sigma} \quad f(x) = \begin{cases} 1 & \chi = 1 \\ 0 & 0 \leq \chi \geq 1 \end{cases}$$
 and older hotels. It is possible map the p



HAPABOJYEHNJE US Munique I. M.3. Yann vus þja He notte. Noleto nepto tre jegtrom angrey, ann lotte. politomepto tre gryfom angrey. Mojam polotomepter nothep tettigigi a ceanogá og fu, f a ayra A.



Hatiomype. 
$$f_n \exists f le A anko
$$\forall E \ge 0 \quad \exists h_0 \quad \forall h \ge h_0 \quad \sup_{x \in A} |f_n(x) - f(x)| < E$$

$$\prod_{x \in A} R \ge a_n := \sup_{x \in A} |f_n(x) - f(x)| \xrightarrow{n \to \infty} 0$$$$

Y 2 agaynne: 1. Hoftmo  $f(x) = \lim_{n \to \infty} f_n(x)$ (2) Hoftmo  $a_n := \sup_{x \in A} |f_n(x) - f(x)|$ (3.)  $a_n \to o \langle = \rangle f_n = f$ 

Y Heynon upunpune  
1. 
$$f_n(x) = \frac{x^2}{n}$$
,  $A = [o_{i1}]$ ,  $f(x) = 0$   
 $a_n = \sup_{x \in I_{0/1}} |f_n(x) - f(x)| = \sup_{x \in I_{0/1}} |\frac{x^2}{n} - 0| = \sup_{x \in I_{0/1}} \frac{x^2}{n} = \frac{1}{n} \rightarrow 0$   
 $x \in I_{0/1}$   
 $=) looto, ji polot.$ 

2. 
$$f_n(x) = \chi^n$$
,  $\tilde{A} = \bar{L}_0, 1$ ,  $\tilde{f}(x) = 0$ 

$$a_n = \sup_{x \in [o_{1}]} |x^n - f(x)| = \sup_{x \in [o_{1}]} x^n = 1$$

$$A = [0,1] =) \sup_{x \in A} |x^n - f(x)| \ge \sup_{x \in A} |x^n - o| = 1$$
  

$$f(x) = \begin{cases} 0, & 0 \le x \le 1 \\ 1, & x = 1 \end{cases}$$

$$He |votto, polonometro |$$

3. 
$$f_n(x) = x^n \quad A = [o, 1/2] = f(x) = o$$
  
 $a_n = \sup_{l = 0} |x^n - o| = \frac{1}{2^n} = o = f_n = f_n = f_n$ 

$$\begin{aligned} & \operatorname{Jagangu}_{4} \, (\operatorname{Harmanian poolst. (1000 for (x)) te A}. \\ & \operatorname{I.} \quad \operatorname{fu}_{4}(x) = x^{n} - x^{n+1} \quad A = [o, 1] \\ & \operatorname{Intia.} \quad \operatorname{ling}_{4}(x^{n} - x^{n+1}) = \int_{1}^{0} (0 - 0 = o, \ 2 \in [o, 1]) \\ & \operatorname{Intia.} \quad \operatorname{ling}_{4}(x^{n} - x^{n+1}) = \int_{1-1}^{0} (0 - 0 = o, \ 2 \in [o, 1]) \\ & \operatorname{Intia.} \quad \operatorname{Intian}_{4}(x) = 0 \quad x = 1 \\ & = \operatorname{Intian}_{4}(x) = 0 \quad \forall x \\ & \operatorname{antian}_{4}(x) = 0 \quad \forall x \\ & \operatorname{antian}_{4}(x) = \int_{1}^{0} (x) - f(x) f(x) = \sup_{x \in [o, 1]} x^{n} (1 - x) \\ & x \in [o, 1] \\ & \operatorname{Jagangu}_{4}(x) = \int_{1}^{0} (x) - f(x) f(x) \quad y \quad y \quad y = \int_{1}^{0} (1 - x) \\ & \operatorname{Jagangu}_{4}(x) = \int_{1}^{0} (x) - f(x) f(x) \quad y \quad y \quad y = \int_{1}^{0} (1 - x) \\ & \operatorname{Jagangu}_{4}(x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) = \int_{1}^{0} (x) - f(x) f(x) \\ & \int_{1}^{0} (x) f(x)$$

$$\int u^{1}(x) \int s = 0 \quad x \in U_{2}, \frac{n}{n+1}$$

$$= 0 \quad x = \frac{n}{n+1}$$

$$= 0 \quad \alpha = \int u \left(\frac{n}{n+1}\right) = \left(\frac{n}{n+1}\right)^{n} \left(1 - \frac{n}{n+1}\right) = \left(1 - \frac{1}{n+1}\right)^{n} \cdot \frac{1}{n+1}$$

$$= 1 \quad \alpha = \int u \left(\frac{n}{n+1}\right)^{n} = \left(\frac{n}{n+1}\right)^{n+1} \quad \alpha = 1$$

$$\left(1 - \frac{1}{n+1}\right)^{n} = \left(\frac{1}{n+1}\right)^{n+1} \quad \alpha = 1$$

$$\left(1 - \frac{1}{n+1}\right)^{n} = \left(\frac{1}{n+1}\right)^{n+1} \quad \alpha = 0$$

$$\left(1 - \frac{1}{n+1}\right)^{n} = \left(\frac{1}{n+1}\right)^{n+1} \quad \alpha = 0$$

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$$\left(1 - \frac{1}{n+1}\right)^{n} = \left(\frac{1}{n+1}\right)^{n+1} \quad \alpha = 0$$

$$\left(1 - \frac{1}{n+1}\right)^{n} = \left(\frac{1}{n+1}\right)^{n} = 0$$

$$\left(1 - \frac{1}{n+1}\right)^{n} = \frac{1}{n}$$

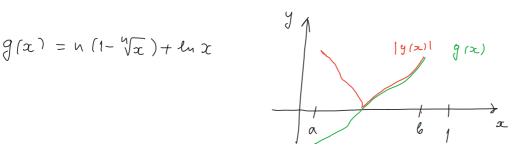
$$\left(1 - \frac{1}{n+1}\right)^{n} = \frac{1}{n} = 0$$

$$\left(1 - \frac{1}{n}\right)^{n} = \frac{1}{n} =$$

.

. .

 $f(x) = -h c \quad tr. tr.$   $f(x) = -h c \quad tr. tr.$   $f(x) = h c \quad tr.$ 



 $g'(x) = m \cdot \frac{-1}{n} x^{\frac{1}{n}-1} + \frac{1}{x} = -x^{\frac{1}{n}} \cdot \frac{1}{x} + \frac{1}{x}$  $= \frac{1}{x} (1 - x^{\frac{1}{n}}) > 0$  $\stackrel{\wedge}{1}$  $=) g (n - 1) \max |g(x)| = \max \left\{ |g(a)|, |g(b)| \right\}$ 

 $a_{n} = mox \left\{ |g/a| \right\}, |g|b| \right\} = mox \left\{ |n(1 - \sqrt[n]{a}) + lna|, |n(1 - \sqrt[n]{b}) + lnb| \right\}$   $\int h \to \infty$   $\int h \to \infty$ 

 $\int_{-\infty}^{\infty} \partial x \, dx = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$ 

get. Z fulz) pablomepto work. He A ano tus SN(2) = Z fuloc) poblo mepto worklept upe A. HAMOMELA. Z fulx) puble. Web. He A => E fulx) Korb. 2a tx EA.

$$\begin{aligned} & \text{IT} b \neq \text{fthe} \cdot (\text{Kouyujeb kyminpyjm polosomephe kossbepickyji}) \\ & \text{fn}(x) \text{ polesomepho kossb. He } A \subseteq IR and u como and bally \\ & \text{FE>0} \quad \text{Fno}, \quad \text{Fm,u = ho} \quad \text{fx} \in A \quad |f_u/x) - f_u(x)| < E \quad \text{Icouvyses} \\ & \text{sobucu como og } E, \quad \text{He } u \quad \text{og } x \end{aligned}$$

=) 
$$M_1 N \ge N_0$$
:  $|f_n(x) - f_n(x)| \ge |f_n(x) - f(x) + f(x) - f_m(x)| \le$   
 $\le |f_n(x) - f(x)| + |f_n(x) - f(x)| \le \frac{E}{2} + \frac{E}{2} = \frac{E}{2}$   
 $4 - \frac{E}{2} = \frac{E}{2}$ 

$$=) f_{1} \xrightarrow{-1} f$$

To chypurgel Zi fu (a) polot. Work. We A (=)  

$$\forall E > 0 \quad \exists h_0, \forall n, m \ge h_0, \forall x \in A \quad \left| \sum_{k=m+1}^{h} f_n(x) \right| < E$$

20 km23. JIpumenumo Cobujeb 10 mm. 4e (n (20)

To chigunge 2. Alco Z fu(z) public liebe. We A =)fn(z) = 0 We A. $dolces. US To ch. I =) E>0 Fno <math>\forall m, n \ge no$   $|\sum_{k=m+1}^{n} f_{k}(z)| < E$  w: = n-1  $|\sum_{k=n}^{n} f_{k}(z)| = |f_{n}(z)| < E$   $\forall n \ge no$   $f \ge dolces$   $f \ge n \ge 0$   $\forall m \ge no$   $\forall z \in A$  $f \ge n \ge 0$   $\forall z \in A$ 

and 
$$\forall x \in A$$
  $\left| \sum_{k=m+1}^{n} f_{k}(x) \right| \leq \sum_{k=m+1}^{n} |f_{k}(x)| \leq \sum_{k=m+1}^{n} q_{k} < E$   
 $\int congrega 1$   
 $= \sum_{k=m+1}^{n} \int f_{k}(x) \int cob + computer kotte.$ 

$$\int u_{24} \alpha \int g_{0} \int j_{1} \frac{1}{\left[ (m_{7}) \chi + j \right] (m_{7} \chi + j)} \sim \frac{1}{n^{2} \chi^{2}} , m \to \infty$$

$$\sum \frac{1}{n^{2} \chi^{2}} \quad loo He. \quad Hox$$

$$\frac{pvb(pomeppe)}{f(n)} = \frac{1}{f(n-1)x+1} \xrightarrow{?} o (n \rightarrow 0)$$

$$\frac{q_{n} := sup_{n} |f_{n}(x)|}{f_{n}(x)} \xrightarrow{?} o (n \rightarrow 0)$$

$$\frac{1}{f(n)} \xrightarrow{?} o (n \rightarrow 0)$$

$$\frac{1}{f(n)} \xrightarrow{?} o (n \rightarrow 0)$$

$$\frac{1}{f(n)} \xrightarrow{?} o (n \rightarrow 0)$$

$$\sup \left| f_{u}(x) \right| \ge f_{u}\left(\frac{1}{n}\right) = \frac{1}{\left(\frac{n-1}{n} + 1\right)\left(n\frac{1}{n} + 1\right)} = \frac{1}{\left(\frac{n-1}{n} + 1\right) \cdot 2} \xrightarrow{n \to \infty} \frac{1}{4}$$

=) In 7: 0 => He KoHb. poblompto

$$2. \sum_{n=1}^{\infty} \frac{hx}{1+h^5x^2} \qquad x \in \mathbb{R} \quad , \quad \frac{Mx}{1+h^5x^2} \sim \frac{1}{h^4x} \quad , x \neq 0$$

$$=) \quad |co+b|.$$

$$2c = 0 = y \quad Z = 0 \quad , ho+b|.$$

=) o Luzto Koth. 3a V 2 C/R  $f_{m}(x) = \frac{mx}{1+m^{5}r^{2}}, \quad \phi_{ukc.}, \quad m, \quad my \quad m_{mm} \quad m_{m} \quad f_{m}(x) = m_{p} \quad f_{m}(x)$  $f_{m'}(x) = \frac{m(1+n^{5}x^{2}) - mx \cdot 2 \cdot h^{5}x}{(1+h^{5}x^{2})^{2}} = \frac{m+m^{6}x^{2} - 2h^{6}x^{2}}{(1+m^{5}x^{2})^{2}} =$  $= \frac{n(1-h^{5}x^{2})}{(1+h^{5}x^{2})}$  $f'_{\mu} > o$  (=)  $(-\mu^{5}x^{2} > o$  (=)  $\chi^{2} < \frac{l}{\mu^{\Gamma}}$  (=)  $\chi \in [o, \frac{l}{\mu^{5/2}}]$  $f'_{y} = 0$  (=)  $x = \frac{1}{\sqrt{5/2}}$  $f'_{\mu} < \circ \quad (=) \quad \chi > \frac{1}{\mu \Gamma_{12}}$ =)  $\max_{[0,\infty)} f_{n}(x) = f_{n}\left(\frac{1}{n^{5/2}}\right) = \frac{n \frac{1}{n^{5/2}}}{1 + h^{5} \frac{1}{n^{5}}} = \frac{1}{2 h^{3/2}} \to 0$ => fn ] 0 1 R  $|f_n(x)| \leq \frac{1}{2h^{3/2}}, \quad Z_{n-2h^{3/2}} = Z_{n-2h} = Z_{n-2h$ 3.  $\sum_{n=1}^{\infty} 2^{n} \sin \frac{1}{3^{n} x}$   $x \in (0, +\infty)$  $0 \int u_1 \mu \alpha = 0 \quad \text{for } u_1 \mu \alpha = \left(\frac{2}{3}\right)^n \frac{1}{2^n \alpha} \qquad 2^n \int \frac{1}{2^n \alpha} = \left(\frac{2}{3}\right)^n \frac{1}{2^n \alpha}$ 

=1 
$$\sum \left(\frac{2}{3}\right)^{n} \cdot \frac{1}{x}$$
 kother =)  $\sum \left(\frac{2}{3}\right)^{n} \frac{1}{3^{n}x}$  kother the

$$= \sum \left(\frac{2}{3}\right)^{n} \cdot \frac{1}{2t} \quad ko\#\ell. \quad =) \quad \overline{Z}_{1} 2^{n} hin \frac{1}{3^{n} x} \quad ho\#\ell. \quad \forall x$$

$$\frac{porb\muonup \mu}{sup} \left[ f_{n}(x) \right] \neq 0$$

$$\sup \left| f_{n}(x) \right| \neq \left| f_{n}(1/3^{n}) \right| = 12^{n} hin \frac{1}{3^{n} \cdot \frac{1}{3^{n}}} \right| = 2^{n} hin 1 \frac{h^{-1} \infty}{f^{-1} \sigma}$$

$$=) \quad Ht \quad Ko\#\ell. \quad poblem up \mu \sigma.$$

$$\oint J \# K U_{1} U \circ \# A J \# A \quad CBO J \subset TBA$$

$$FPA \# U \forall \# E \quad \phi J \# K U_{1} U \sigma$$

=) It KOHS. poble mepto.

fra - Hene ocostrige =) f une wy o costrig

$$T (\text{Hegering to cut tp atturte } \phi \text{ytturguji}).$$

$$f_m \text{Huip. } x_0 \in A, \quad f_n \rightrightarrows f \text{ He } A \implies f \text{ f } \text{ Heatrup to } x_0.$$

$$20ka3. \quad x_0 \text{ tabos}: \quad E > 0 \quad qairo \qquad ? S \\ |x - x_0| < S \implies |f(x) - f(x_0)| < E$$

$$|f(x_0) - f(x_0)| = |f(x) - f_m(x_0) + f_m(x_0) - f_m(x_0) + f_m(x_0) - f(5c_0)| \leq (1 + 1) + (1 +$$

$$\leq |f(x) - f_{m}(x)| + |f_{m}(x) - f_{n}(x_{0})| + |f_{n}(x_{0}) - f(x_{0})|$$
(1)
(2)
(3)

(1) u(3)  $\exists h_0 \forall h \geqslant h_0 |f(x) - f_n(x)| < \mathcal{E}/3 \forall x \in A \quad (f_n \rightrightarrows f)$ 

(2) 
$$\phi_{\mu\mu}$$
 (2)  $\phi_{\mu\mu}$  (2)  $h = ho (H_{\mu}p, h = ho)$ ,  $f_{\mu}$  (H\_{\mu}p,  $f_{\sigma} = \mathcal{J}(\mathcal{I}_{\sigma}, h)$   
 $|\mathcal{X} - \mathcal{X}_{\sigma}| < \mathcal{I} = \mathcal{J} |f_{\mu}(\mathcal{X}) - f_{\mu}(\mathcal{I}_{\sigma})| < \mathcal{E}/2$ 

3a obauloo  $x_{1}$   $|x_{2}-x_{0}| < J = 1$   $|f(x) - f(x_{0})| < \frac{\varepsilon}{3} + \frac{\varepsilon}{3} + \frac{\varepsilon}{3} = \varepsilon$ 

$$\begin{aligned} & \prod_{pump} f_n(x) = \chi_n^n, \quad A = [o_{j1}] \quad f_n \quad y \quad \text{Huppengee} \\ & f(\chi) = \lim_{n \to \infty} f_n(x) = \begin{cases} o_{j0} & o \leq x = j \\ 1, \quad \chi = 1 \end{cases} \quad \text{for } \eta = \lim_{n \to \infty} g_n \\ & f_n \quad f_n \quad$$

Ha name Horne ce genezyje cregete mbpt

 $\begin{aligned} & \iint \mathcal{O}_{p} f_{i} f_{i} (x) \stackrel{\sim}{\to} f(x) \stackrel{\sim}{\to} f(x) \stackrel{\sim}{\to} f(x) \stackrel{\sim}{\to} f_{i} (x) \stackrel{\sim}{\to} f_{i$ 

PRYTORS, PAERATH BOKA 3 HENPERCH SHOOTH

Mina Koure Til by firse:

$$\begin{aligned} & \int \mu (x) = \chi^n \\ & \lim_{h \to \infty} \lim_{x \to 1^-} \int \mu (x) = \lim_{h \to \infty} \lim_{x \to 1^-} \lim_{h \to \infty} \chi^n = \lim_{h \to \infty} 1 = 1 \\ & \lim_{h \to \infty} \chi_{\to 1^-} & \lim_{h \to \infty} \chi_{\to 1^-} & \lim_{h \to \infty} 1 = 1 \\ & \lim_{x \to 1^-} \lim_{h \to \infty} \chi_{\to 1^-} & \lim_{x \to 1^-} & \lim_{x \to 1^-} & \prod_{x \to 1^-} &$$