2547 /2 + 3)+/22+32)7...+ $+\left(\frac{1}{2^n} + \frac{1}{3^n}\right) + - 2 \left| \frac{1}{3^n} - \frac{6(11 - 2^n)}{1} \right|$ 2 (1 + 2) + (2 + 2) x + (2 + 2) 2 $\frac{2}{2}\left(\frac{2}{2}\right)+\left(\frac{2}{2^{2}}\right)+\cdots+\left(\frac{2}{2^{n}}\right)$ Sn 15 nxp - 5 / - 2 + 2 + 2 + 1 + 1 + 1 + 1 = 2 2/2/7-(=1)P) = -1 < E 12 E 2 N-1 N-12 log 2 (2) N = log 2 (=) + 1

Cos 2 2572.2 cos 22 y Lajame: 4-1 h(n-1) cog x n n(n-1) Cos 2 n+1 cosx (R+1)2 (n +2)2 cos x n +p cas 2 nx1 COSXRIZ (n/p)2 (h+1) h (h+2) (h+1) cos x nopo cosxn+1 Cost 2 (n+p)(n+p-1) cos 2 n+2 COS 2 1/2 7+1 cos a ntp n+p une. caguncel

2593 Dokazemile, zano ecuni gical prega E an (an 20) cynyembyom Donas Um an 29, no yyeembyon malane (m Van = 9 1623 ym 6n 26 Um & + 6 k+, + ... + 6k+n = 8 Uno juanum romo & elevernece pelgerece rollegebernecescome : Have HE20 3N(E): 47 N(E) an 16n-6/< 6 6-E < Bn < 6 + E , 6 m. 2. gul h=k, K+Z, m, k+a h(6-E) _ 6k + 6k+1 + ... + 6k+n _ h (6+E)

Donagerono, uno elle morga 7 4m Van = 9 mo ha a you and and lin (han, - han) z ha Wan 29 (-> 4m (man) = 62 6, +. + 6n = - (ma) tuen pasomaem banensep, Haosopon 3+1-112 ENTE uer

IRp lew Junga: meg sagumae, eam an no to Pa 2661 (20 (-1)h / h) (4m / 20 h) h> a h / th 2 / 1-11 h/ = 5 h - parningume Kem accommon Rogunoemy, Swith way nollko guobual Pynkyuokanouse prego 121 mm tangon pukungebannan x 5 man selection regument as razorberemen

желеть сходиности: * Onnegeeums

O & e-nx

O & e-nx с пошощью признава коши: 6 Paramonjum = 4m =x =9 N Ro Koums kpu n >0 => 9 27 - Crogumese Myru n 20 23 9 > 1 - paragunce Ro camony beigg pulga: th kpl n 20 23 1 - parroquemen july by equation Omben: Oblaceme regunderny: 26 (0,0) ugundel D & / (2) 2 usemy) ап = - зариши геский Ppu x 20: an men onpegerien Onben: 00. (2003.: 26 (-00;0)

2717 B C-122 (7-2) h Абсольний сходиность: -> no Barane Sept probenium Gradunium (2011) 1-15 h +1 (1-2) h +1 (2000.): hon / (-1) h (1-x h / 1+x) /2 - 2 | ~ 2000 | ~ 200 | \sim -14 1-x 21 x (0;00) -1-x < 1-x 2 1+x -1 < 7 < 1 + 2 x 0 < 22 0) 270 The muyuang revolunga yandrae ghiobne exogeniorma cono generales (lim ax 20) 1 6 ganx <0: moberun how cuegrae um az zo Onben: 00c. exog. : x & (0;00), your exeg.: a G [0;00).

2713 2 1.3.... (2h-1) (2x) h Adousommane exagencioeme (no D'Anantepy): 4 4 (de.): 1.3.... (2h+1) (2/x1) 7.3.... 12 h-1) (2/XI)h han ephylas 2 Um (2h+1) (2/x1) = 2/x1 hora (2h+2) (1+x2) = 1+x2 2>0,14 octavens obe. " X6(0,0) 2/2/2/2/ 2/2/ 4 1+22 x2+1-2/x/>0 (1x1-7) >0 My x 7 ±7 odrami nac accommande chagewormer. O.S. a.Se. cause x 6 (-0; -1) v (-1; 1) v (7; 0)

Ppu 2=-1 Commen, see CX Pyre x = 1: (2 x) 2 = 7 Rowensence: 7 - 3 ·... (21 - 1) 1-500 2.4 · ... (2h) Необходиший условие жоденности, выпольный ументом к расподиность пи уразу не получилось. Придетия сходиность нежать зальше (Д'яганост, кону упавичений, интегранивный признак... Pab no mephas a nomo zez neul

exoguna ocomó

nomeg. Sn(x) pabuarep

ho exoguna ya nos

nomeras

ho exoguna ya nos

nomeras

ho exoguna

nomeras

n 15n(x) - 5(x) 1 26. У Пеореша (онеа ше признак) Веберитрана (200) во признак Скодино (lan(x)/ & Cn th. Morga preg (1) - prez, exogreryens al

Baren 3mo ny muo? 2 2 chm an 1x) 2 25 (4 m an 1x) 2 25 (4 m an 1x) 2 25 (4 m an 1x) 2 Sin nx rollymun E congunación / tuompuun Ensin ; lim 2 / 20 0 < 7 28 peg & Cu exagernere no kour =) 2) aeroguent pieg crequence ro терение Велберинумия

2779 (a,g) (-00 = x < 100 Jagunae 23 $\frac{1}{2^2 + h^2} \leq \frac{1}{h^2}$ 2) no m. Bewegunngang Unagusur preg manue Exogunce 1 $\frac{20}{21} \frac{n^2}{\sqrt{h^2}} \left(x^n + x^{-h} \right)$ $\frac{n^2}{\sqrt{n}} \cdot (x^n + x^{-n}) \leq$ 2718 2721 2774 (9) 2 100 235 DUE

Tyobennu de commuyo cogunoeme C nouveryou 2 heardings: comeneus? $\frac{1-n+1}{n+1+1}\left(\frac{x}{2x+1}\right)$ 1 n + 1 (2x + 1) n/ ned 2) Ade o exag. you morpaus 1. e. addent avc. crag: -122 <1 26(-3,-00) -2x-12x22x+1 -7 × 3 × × 4x + 1 1-1<3x => {x7-1

774 $a_n(x)$ $|a_n(x)| \leq C_n$ $\forall x$ ξ C_n - exagumuse $\frac{20}{21}$ $\frac{21}{21}$ $\frac{20}{21}$ $\frac{20}{21}$ $\frac{20}{21}$ Co 5 21 7+4972 5x c 100 052 200 $a_n = \frac{\chi^2}{e^n \times} = \frac{\chi^2}{h^2 \chi^2} = \frac{2}{h^2} - c_{\chi o g}$ enx 2 1 + nx + h2x2 + e^{hx} h^2x^2

f(x) = = a/2) Hymno, morter July cargenere paluomenno megen odyero mena preza -> cycycombyem Gin f(x) 2 E (Gin an (x))

2 5 B Resole p. C. Zan 5 ()() = = (a, 1x) pabu. ency. E an N1 & Sin (nx)

\$(x)=2 \(\frac{1}{2} \)

\[\frac{1}{2} \)

\[\frac{1}{2} \]

\[\frac{1 tre6R Cho. 15/10 MX / = 1 $\frac{E}{h^4} \operatorname{Comog} - \operatorname{Col} = 25 \underbrace{E} \underbrace{\sinh nn}_{h^4} \operatorname{palent ade}_{n^4} \underbrace{\exp \operatorname{col}_{h^4}}_{h^2}$ $\frac{S}{S(x)} \frac{dx}{dx} = \underbrace{E} \underbrace{S \sinh nx}_{h^4} \frac{dx}{dx} = \underbrace{E} \underbrace{1 - \cos h a}_{h^2}$ $\int_{0}^{q} \frac{\sin h x^{2}}{n^{4}} dx = \int_{0}^{q} (-\cos h x) \int_{0}^{q} \frac{1}{n^{5}} (-\cos h x) \int_{0}^$ $\frac{N^2}{3(x)^2} \stackrel{\text{go}}{=} \frac{\sin(2^h Rx)}{2^h} + \chi \in \mathbb{R}$ / Sin (2ⁿ Rx) / = 2ⁿ junequero preg $\frac{d}{dx} = \frac{\cos(2^n Rx)}{2^n} = R \cos(2^n Rx)$ regula me museem,
nomovey, neculompie
na palon. crag.,
sin, melope guppepenyypoberme my 6 ognos 201-11/201201 2