Camoemo emercuan pasoma M3235

IM) fn(x) = e (x-h)2

The Soma Massissian pasoma M3235 a) $X \in [-3,3]$ $\lim_{n\to\infty} f_n(n) = \lim_{x \in [-3,3]} e^{-(x-n)^2}$ $\lim_{n\to\infty} f_n(n) = \lim_{x \in [-3,3]} e^{-(x-n)^2}$ $\lim_{x \in [-1,3]} e^{-(x-n)^2}$ $\lim_{x \in [-3,3]} e^{-(x-n)^2}$ $\lim_{x \in [-3,3]} e^{-(x-n)^2}$ $g(x) = e^{-(x-n)^{4}} \cdot (-2)(x-n)$ 1) g'(x) 20 X=n 2) g(x) >0 X < h -3 h 3
3) g(x) X0 X>h sup(g(x)) = g(n) = 1, (-3 < n < 5 Sup(S(x)) = g(3) = e $= (3-h)^{2}$ $= (3-h)^{2}$ $= (3-h)^{2}$ -(3-n) < In & (3-n) > - In E + n73 passion. Busin 7 N(E) = 3 (Kounepuis Kown)

8) XER Anaromino g(x) = e -(x-h)2 U Sup (g(x))=1 gre $x \in \mathbb{R}$ 3 narum, ne pasus mepus $(32)^n$ $(32)^n$ $\frac{\infty}{2} \frac{(3x)^{2}}{n \sqrt{n+x}} \leq \frac{5}{2} \frac{(3 \cdot 1/3)^{n}}{n - 1} \geq \frac{5}{2} \frac{1}{n \sqrt{n+x}} \leq \frac{1}{2} \frac{1}{n \sqrt{n}} = \frac{1}{2} \frac{1}{n \sqrt{n+x}} = \frac{1}{$ z 2 73/2 - OSodyennon verhuonerecuent has ujuaranthusin pagom =>

> no neugrany Benumpaica on

pashousepus cropumes & neumpaica x e [9 /3]

[N3] fr= In (1+ cosnx) x & [0+00) lim In (1+ cos xx) = 0 x | fn - 0 | 2 | | n (1 + cosnx) | 5 | | n (1 + tn) | 6 < /1/ (1+ \sqrt{10}) = /n (1+\sqrt{10}) -> 0 Buarusa pel pobus crepus creguses fr= farctex >cell lim aretex" = { $\lim_{n\to\infty} \frac{\pi/2}{n}$, x > 1 $\lim_{n\to\infty} \frac{-\pi/2}{n} = 0$ $\lim_{n\to\infty} \frac{-\pi/2}{n} = 0$ |fn-0|= | arctgx" | < | 7/2 | -> 0 Знагим равно перия спорител (1 in aretex") = 0'=0 1 x 1 + x 1 + x 1 + x 1 = 1 lim = = 1/2 0+1/2