13 annece на рави. Сх-ть при 2->+00 F,=(-a,a) E=(a,+∞) npa 2 -> +00 n^2 $2n^2$ $n\rightarrow\infty$ E => ken pabu ecmo ex-mo ka mu x -> +00 Ka /R 4+(x-4)6 F)=(-0;0] F2 = [0; +0) 5 4 + 26 + 9 (a) gada -> 0 => na E, (2(x,2)ax => no Benerumpaccy

Ez: Dor-u, 2mo nem pobn. ex mi no Rp. Koul $VB \exists n \geq B \exists \xi_1 = n , \xi_2 = n+1, \lambda = n+1$ $\int \frac{dx}{4+(x-2)^6} > \frac{4+(n+1-2)^6}{4} = \frac{1}{4} = \varepsilon$ => rem. pabr. csc-mu na Ez. 4. Iso-f 22 cos (200) da na E = 1R $f(x, \lambda) = \lambda \cos(\lambda x)$ $F(\alpha, \lambda) = \sin(\lambda \alpha) \leq 1$ $g(x, \lambda) \rightarrow 0 \quad \forall \lambda = 9(x, \lambda) \rightarrow 0$ 9x = 0 Ce-10, I(L) = na F

D-u, rmo g(x, L) = 0E (=) 121 ER + 1212 E 12 = 1+ 821212 < 8 E2121 x E + E 3 1212 E2 112 - E121+1>0 $\left(\frac{2}{2} \right)^{2} + \frac{3}{4} > 0$ Bepro 42 => $=>g(x, \lambda)$ 9 x 80 Cu-no, 1 Ke E

E = (0; +00) $f(\lambda) = \int \frac{\cos x}{x^2} dx$ 72 ≥ a >0 L(x,L) = cos & orp. reploado. $g(\mathfrak{T},d) = \begin{cases} 1 & 1 \\ 2 & 1 \end{cases} = \begin{cases} 1 & 1 \\ 2 & 1 \end{cases} = \begin{cases} 1 & 1 \\ 2 & 1 \end{cases}$ => g => 0 ka [a, +∞), a >0 => F(L) сх-сг ровконерно ка $[\alpha, +\infty)$ Kenp. $f(x, y) = \cos x \quad \forall x \ge 1, \quad y \leq 2 = 0$ => f(2, L) renp. npa d = 0 Tr. e. F(2) \ \(\(\) \ (0; + \(\infty \)

verrois e $(1-\alpha)^{\frac{1}{2}} d\alpha = B(\frac{3}{2}, \frac{8}{2}) =$ Vx - x2 da $B(\frac{3}{2},\frac{3}{2})$ 20 sin Je (1) (1) x = Ax cx - ce enx xx4 x y-1 dx (4 = sinyt B(g, 1-y = - IC F (y 3 4) = 502 (- 52) n2 /2 = [

Louo na marmure I (4) I(L) = Jardy (Ltgsc) $I'(2) = \int_{0}^{\infty} \frac{6x}{2^{2} + 1} = \int_{0}^{\infty} \frac{1}{2^{2}}$ = a arctg (2 tg (2)) - 2 / - Jo I(2) = och 12+11 + C = och 12+11 (L2E+1)(P+62) < 1+62 1 1 de = arcty IC => \(\int \frac{6}{2^2} \pi + \chi \quad \text{cx} - \text{Ce} \)