5º1.13 f-02p., mis. no levery na a^{1} $f^{(0)}$ $f^{(0)$ a, z) (E) < 00 Samerus, uso 110 u cost -oep. u 11, cost & JH(E) => 110 u cost -uni E >> /4/- wir no revery 8) f- uni no lestey na B (=> If/-uni na + lim 1 = = 0 => \$ \$ 4 L(E) A +(x) = C, C = |R \ Sof => f = c; E = (Q,1) => Je dre = e < 0 => fells) f можей быть как имер, так и не набер, по Либегу · \(E) = 00 f & L(E) (=> |f| & L(E) => |f| & L(E) f-orp -> |f| = M => |f 10| = M3 |f| => 110 = L(E) 201.21 E-usm. + 70, 6 L(E); g & SH(E): d = g = B recure ta eE D-13: - 7 8 = [d, 13]: Stgolic = 8 of die Dlo: d = g/x) = B => d ff dre = ffg o/x = fg dre. Pr marana ff da +0 => d = Jfgdre · [Jfdre] = B => f = Jf.gdre · [Jfdre] Ecou Store =0, 50 Quera 10400 63.08 V ge [d, B]. N(E) = 10 (ppodonneeune) 4.7.0. Pacanospun f(x) = x2 ; fe M(E), De E= (1, 00) x > m => f -> 0 => cosf -> 1

162(E), \$12)>0 round +20E B-B: If da =0 => M(E)=0 8-60: E = E/150] + E/10] = E/150] + UE/12 m] 1(x) =0 noun + x = E => M(E(4 = 03) = 0 } => M(E) = $=\mu(\bigcup_{n=1}^{\infty}E[t>\frac{1}{n}])$ $=\mu(\bigcup_{n=1}^{\infty}E[t>\frac{1}{n}])$ $=\lambda(E_n)=0$ $=\lambda(E$ fn + 1 6 L (a, 6) costn + cost 6 1/9,61 D-6: cosfn-cosf = 2 sin $\frac{f_n+f}{2}$ sin $\frac{f-f_n}{2}$ $\frac{f-f_n}{2}$ sin $\frac{f_n+f}{2}$ = $(f-f_n)$ bin $\frac{f_n+f}{2} \le f-f_n = > |\cos f_n - \cos f_l| \le |f-f_n|$ fn + f 6 L(a, 6) =>) /fn-fldx=>0 -> Stosfn-cosflolæ = Stfn-flolæ ->0 => Stcosfn-cosflolæ->0 => cosfn -> cosf 6 L(a,6) f, Ifogner & JHIR), for->f nouse busy we IR D-B: Je sinfo de -> Je sinfole nou D-60: Bameralue: |e ninfn | = |e -2' | = | 4 h z 1 => |e x infn | = F/2)

20e F(z) = 1 In - f nouse busy wa IR Town no q. Nevera o mancop. ex-re: limbe = sinfordre = Je-22 sinfor Je sinfu da > Je-x'sinf da nou n > 0

502.4 D-B: $\{f_n\}_{n=1}^{\infty} \rightarrow f$ no respect $= \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = 0$ $D - \text{Lim} \int \frac{|f_n - f|}{|f_n - f|} dx = 0 = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = 0$ $= \mu(E) - \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = 0 = \sum \mu(E) = \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx = \sum \lim_{n \to \infty} \int \frac{|f_n - f|}{|f_n - f|} dx$ I for shi : for & SM(E), we M(E) < 00. => Ifn-f1 =0 npu n-> => fn > f cocat ua E => fn-if no repe (a) fn f => 4ε > 0 +δ > 0 -7 N: μ(ε[14n-41 +δ]) εε ηρμ η η Ν (a) +δ > 0 μ(ε[14n-41>δ]) -> 0 ηρμ η -> ∞ A E= [0,1]. Pacemospull fr(x) = { 0, x e [0 1/h) Rpu fin $n \to \infty$ fin $\rightarrow \mathcal{U}$, $we \varphi(x) = 0$.

Thin fin $dx = \lim_{n \to \infty} \left(\int_{0}^{\infty} dx + \int_{0}^{\infty} dx \right) = \lim_{n \to \infty} \left(n \cdot \frac{1}{n} \right) = 1$, $uo \int_{0}^{\infty} \varphi(x) = 0$ The E-10,13. Pacemospum for $|x| = \begin{cases} n, x \in l0, 1/n \end{cases}$ $f_n - or pannyeumane, usm. <math>n \rightarrow \infty \rightarrow f_n \rightarrow \psi = \frac{1}{\infty} \quad \text{in } \int \frac{1}{\infty} |dx|$ $= \int \frac{1}{\infty} dx = \lim_{n \to \infty} \int \frac{1}{N} dx + \lim_{n \to \infty} \int \frac{1}{\infty} dx = 1 + \lim_{n \to \infty} \int \frac{1}{N} = \infty \Rightarrow \psi \notin L(1)$