uf 410, 41, 419, 4,24 (39,40); 3,14, 4,4, 4,4 (19, 20) 0-3: 9= f(2, y): y= kx+6, osker, o= 8=1} - Kournaus 6 Clo,13. D-60: A fyngn= = fkn 2 +6ngn=1 05kn =1, 056n 51 A ecr nodroca 13 lecca (kum, 6nm) > (ko, 60) & 20,13 -> 2 f(ynm, yo) = mare | kn x + 6nm - kox -60 | = | knm - ko | + 16nm - 60 | ->0 -> ynm = knm x 1 6 m -> koxtbo = yo 6 Clo, 13 => P- KOMPAKI D-3: ÜKi - KOMPAKE, De Ki - KEMPAKE UPi npedkamar, De Pi- npedkamar. D-60: 1) A [kn]n=, C ÜKi =>] [knm]n=, C Km, 2De Km - Kounan =>] { knmj sj=1 : knmj -> k & Km C Uki -> UKi - KOLLITAKS 2) A {project UPi -> } {prom gm=1 c Pm, we Pm - npeduousran => 3 cadelyas ese { promjsj=, => UPi - ppedreuman: f(x,y) = |f(x)-f(y)| - merpuna na IR Решения: Проворим оженомых мерики: 1) p(x,y) = |f(x)-f(y)| 20 - Eque 2) p(x,y)=0 => |f(x)-f(y)|=0 => f(x)=f(y) -> x=y- Expus 3) p(y, xe) = |f(y) - f(x)| = |f(x) - f(y)| = p(x, y) - Copuo 4) g(x,y) = |f(x)-f(y)| = |f(x)-f(z)+f(z)-f(y)| = |f(x)-f(z)|+|f(z)-f(y)| = p(x,2) + p(2,y) - bepro 1), 2), 3), 4) => p(x,y) = /f(x) - f(y) / - mespuxa

A - M, g> - acry. mp-lo => f= li, x= + g Puxerpyan E= 1/2 Aa & Ac M => B'2 (a) colleponent a => B1/2 (a) cA => A- orup. un leo. 504.6 fe R[a, 6]; fe Loo (a, 6) Pacemorphum f = 52 : (R) / 52 = 252' / = 2 => 52 ER10,17 17/f/ ± C+0=> JZ = C -> x = = => 0 => moneuro lesispans G: G < Ca, reus cousses us y glernerure , Coprenion ya. uceyy => If we eyy, orp => f= = \$ \$ Lolo,1) fr, f & L(E) nLo (E); fu - f, sup //fn//Lo(E) < 20 D-B: fn-rf + p e(1, 0); If n-f//20(E) - $\begin{cases} f, fn \in L_1(E) \\ f, fn \in L_{\infty}(E) \end{cases}$ D-60: fn, f \(L_1(E) \(n L_1(E) => \)

\[
\begin{align*}
\int_n - \int \(\ell_1(E) \)
\begin{align*}
\int_n - \int \(\ell_n(E) \)
\ell_n - \int_n \(\ell_n(E) \)
\end{align*}
\] => 6 cury nunctinous fn-f & LoolE) => Ifn-f1 & //fn-f1/LoolE) L 00 7. 7.2 (13 yesolecul fn-fe LI(E) n L ro(E) => //fn-f// < //fn-f// Lej//fn-f//Lo(E) = //fn-f//LIE) ://fn-f//Loo/E) fn-f=> //fn-f//LIE) ->0) => => //fn-f//pie) = //fn-f//hie) . //fn-f//mie) -> 0 +pe(1,0) => fn-> 1 +pe(1,0). fn - f & L x (E) ! No up-by 4edminéba: 1/fn-f//bole) & sup (fn-fl) = 1/fn-f//Li(E) -> 0 => fn -> f

F. F. C. M; F. F. - Kannakti ! FINFE = Q BOOK DOON OF THE B-R: P(F,F) xe F, ye Fe P(x, y) x O and 25 = (3) and 34- 15 (3) and 34-16 2- le: Oue buduo, and g(F, F2) 70. A ze F, 7020a g(2, F2) = = inf p(x, y) >0. Eens de domo palección rolla ra - nperenne пика ми ва Fe, по Fe - компакь => Fe - замии. и огр. => of 8 cury samuy rocore Fa: 20 F2 -> F, 1 F2 + 9, 450, 10 point Coperus year buro. - Ananozurum X y E Ez: p(F, y) = inf pla,y) >0 => $\rho(F_1, F_2) = \rho(\pi, y) > 0$ Deli sol a telle o Tole) = 10 + 2 marie 1/2/2 = 1/2/1. . Il 8170 1-orp., morp., op-ue: fe still), E,=10,63; E= ((x,y): a=266; 0=4=4/x)\$ b.B: E-434; Hanny pE-?

b-6: E= U [(z,y): a= z=8, == y= floof = UE: => Vi M. E:=0; N*Ei= Jfladde Pacemorpum {Qifi=1: Qi= [xi, xi-1x]x[yi, yi+4y] => ti] j: Ej Bumoraci beete vacis Di neropad borace One lunave Qi corepnente & OUI-TH 20e 4=0 => MQi=0) => & M Qi = & Dai. Dy; HE 20 3 N(E) 70: 4 i > N(E): 04: < 8-a => & DR: 44: = & DR: 44: + + & axi ay; < & axing; + E = fixida + & HiEN QiCE: => ZMQi & Splande => $\sup \left\{ \tilde{z}_{i} \mid \mu Q_{i} : Q_{i} \in E; \tilde{f} \leq \int_{A}^{\beta} f(x) dx \quad \forall \quad \left\{ Q_{i} \tilde{f}_{i} \right\}_{i}^{N} \in E \Rightarrow M_{\pi} E = \int_{A}^{\beta} f(x) dx$ => E-usuropuno -> ME = Store. JP 4.11 fifn = Li(E); g, gn = Lm(E); fn -if, gn -ig nown & x = E, sup //gn/loo/E) en D-B: fign > fg 2-60: figh - fg = fr (gn-g) + g(fn-f) => //fngn-fg//2(6) = //fn/gn-g///2(6) + + 11g(fn-f) 1/21(E) = 1/fn/21(E) 1/gn-g/120(E) + 1/fn-f/21(E) 1/g/120(E) - 1/fn/2/00/gn-g/2000, T.K. Mfn-flluter ->0, a lighter = 20.

//fngn-fg//LIE) & -> //fn//LIE1 //gn-g//La(E) gn -> g nouse freE => Ign-g/->0 nouse freE gn, g & Lm(E) => gn-ge Lm(E) => 7 ess sup /gn-g/ 20 19-+91-20 novar treE => 119n-91/2016)+ => //fn//4(E) //gn-g//4(E) >0 -> //fngn-fg//4(E) ->0 => fngn ->fg 450 504.24 fe L(E) nLn(E); 1=p=n, 1=q=n: p+==1 D-B: 11911/10(E) 11911/2(E) = 1191/4(E) · 1191/4(E) D-60: f∈ 4(E) n Loo(E) => 1/41/4(E) < 10, 1/41/Loo(E) < 10 P-60: f ∈ L(E) n L∞(E) => 11f114(E) = 10, 117. L∞(E)

pe[1,∞] u f ∈ L(E) n L∞(E) => no τ. 7.2 uneuu! 1/f1/p ≤ 1/f1/, 1/f1/∞ / 9 g ∈[1, ∞] => ana sorumo unela: 11 fll = 11 fll, \$. 11 fll = \$ = 1/411, 1/4/100 in all securious