31, 31, 3/3, 3,4, 3/5, 3/6., 3.2, 3.8,39, 3.10 D-13: f un Rm (cm) - numerusur => f/x) = 5 dx 2x dx e R (C) D-60: ( ) 1(52+59) = 5 dr (5 2n+5yn) = 55 dx 2x +5 5 dn yn = 5 f/2) + 5 fly) -> municipalis 3 I f - mulicusui grykk - an na 18m (Cm). 2 = E Bu 2n, We B, Be ... Bm - Sazue => f(xe) = f(\frac{2}{k=1} \beta k \pi\_k) = \frac{2}{k=1} \pi k \pi \frac{1}{k=1} \pi k \frac{1}{k=1} \pi \frac{1}{k=1} 82.2 D-B: f ma Cm - comp => f(x) = Edx xx du E C D-60: @ f(5x+5y) = & dx(5x+5y) = &dx5xx + & dx \$ yx = = 5f(x) + 5f(y) => coop. min. (=) If-comp. www. na Cm x = E & xxx => f(x) - E Tuf(Bx) = E dx En; dx = f/kx) Vk=1 Do2.3 ye4(a, 8) to €[a, 6] D-B: f(x) = Ix(t)y(t) oft, Sio(x) = x(to) - m. qp-161 D-Co: - f(32+52) = S(52H)+52(t)) g(t) dt = 5/2(t) g(t) dt + 5/2(t) g(t) dt = 5f(x) + 5f(Z) => muser usu · & (5x+52) = 5x(t) + 52(to) = 5 & (x) + 5 & (2) => uneinani 450

Ли ф-алы на С1-1,17 . a) f(x) = mage x(+) max (-1) {2=0. + (-1) max {3=-1 => net 5) f(x)= min x(t) min (-1) { = -1 + (-1) min + 2 = 0 => 11168 6) fire - Inchidt - Inchidt f(5x+ 5y) = J(5x(4)+5y(4))dt + J(5x(4)+5y(4))dt = = 5 Jx (4) dt + 5 Jy(4) dt + 5 Jx (4) dt + 5 Jy(4) dt = 5 f(x) + 5 f(y) => => Da D-B: + L'CL ebn-al Chingra. Mu-OM. L'-Chingra. Teno D-Co: L'- run unorosof => +x, y e L' -> dx + (1-d) y e L' + d e lo,1 M- bringen Teno (=> ] xo e M: tyeL ] Ely): notige M itt! Itle Ely) => tre x +ty & L' => ne Britynn. Tero. IL' +L -> = yeL: yeL' Д-В: Надиние иногообразие М - выпука ми вы. М-выпука. тело D-60: ] x, xx eM = x0 + L' => ecny y, y2 eL', 00 x = x0+y, x2 = 20+y2 => dx + (1-d)x = d x + (1-d)x + dy, + (1-d)y2 = x + dy, + (1-d)y2 EM ]L'+L => ] yel: y4L' => #x=x0+ZeM: ZeL', t+0 x+ty4M -> не выпука. Тело. W- Chingra un 608 L xoel D-B: 20+ W- 661RYKA. D-60: ]x, x = x0 + W => ecnu y, y = W, TO x = x0 + y, x = x0 + y2 dan + (1-d) re = 20 1 dy, + (1-d)(2 (503.2) = 20 + W => 651 Myrn.

М. N. выпука. имва в L 1- скапер. Q-B: M+N, M-N, 1M- Boingra. D-60: - ] 5, 5x E M+N => 5, = 22+4, 52 = 22+42: 29, x2 EM; y, y2 EN 25, + (1-d) 52 = d2 +d41 + (1-d) x2 + (1-d) 42 EM+N = 6510. 75, 50 EM-N => 5, = 24-4, Ex = 22-42: 20, 22 EM, y, yo EN 25, + (1-d) 52 = dx - dy, + (1-d)x2 - (1-d)y2 = dx + (1-d)x2 - (dy, + + (1-d)42) E M-N -> 6617 .] E, E, E / M => E, = 1x, E= -1xe: 2, x2 EM ds, 2 (1-d) 52 = d/x, + (1-d) /22 = 1 (dx, + (1-d)x) e/M => Bun 1 11-0) 5(4-20) & C +0(8 1) = 2 Compan. 2.800 D-B: 6 le 6 kin. 2 len-ae: a)  $TT = \{x = \{x_n\}_{n=1}^{\infty} \in l_2 : |x_n| \le k \le N\}$   $TI, E : \begin{cases} 6 & \text{len } T \text{ ena} \end{cases}$   $S) E = \{x = \{x_n\}_{n=1}^{\infty}, \in l_2 : |x_n| \le k \le |x_n|^2 \le l\}$ D-Bo(a)  $x, y \in TI \Rightarrow One |dx_k + (1-d)y_k| \leq d|x_k| + (1-d)|y_k| + (1-d)|y_k| + (1-d)|y_k| + (1-d)|y_k| + (1-d)|y_k| + (1-d)|x_k| + (1-d)|y_k| + (1-d$ 5) ] x, y & E => dx + (1-d)y = \( \frac{\infty}{k} = \k^2 |d \alpha k + (1-d) \frac{\infty}{k} |^2 \left\ \frac{\infty}{k} |^2 + \frac{\infty}{k} |^ + (1-d) |4x/2 = d = k2/2x/2 + (1-d) = k2/4x/2 < 1 => 6,17. (de 10,17) a) TI-60111. TENO? TI-6nin. Teno? x & TI, y & le: y = [k]x=1 => 12x+t = 1 = 2 . Samerum, uso: npu k-> 10 nep-60 nebepuo => TI-ne 6011. Teno S) E- ENID. TERO? ] xe E, ye l2: y- 2 kgk=1 => + + +0 = ke/xn++yn/2 = = ke/xn++ / k lim k2/2k+ t-1/2 = lim /kxx +t/2 = 1+12 +0 => = k2/2x+tx/2-pacx-ae 25 E- ne 65m. reno

 $D^{3}.6$   $D^{-3}. M = \left\{x \in C(10, 6] : |x(t)| \le 1 \text{ } t + (1-d) \text{ } g(t)\right\} = \frac{1}{2} \cdot \frac{1}{$ 

 $J^{03}$ . 9

[Wist-currence beingen. wen-b.

3-Bo:  $J \approx g \in PWi \Rightarrow x, g \in Wi \; \forall i \; ; \; Wi \; barrynn \Rightarrow$   $\Rightarrow dx + (1-d)y \in Wi \; \forall i \; c=> dx + (1-d)y \in PWi \; \forall d \in [0,1] \Rightarrow beingm.$   $J^{03}$ . 10  $J^{03}$ . 10 J