2. час Tipumep D, dE (2, y)=1x-J1 Hugi Kominenan TE ∃xn ∈ CL, Xn → V2 $F \neq r \in \mathbb{R} \quad \exists \quad x_n \in \mathbb{R}, \quad x_n \neq r, \quad \mu_{np}, \quad x_{n'} := \frac{[n r]}{n} \in \mathbb{R}$ 6Z $nr \leq [nr] < nr + 1 =)$ $r \leq 3cn \leq \frac{nr+1}{n} = r + \frac{1}{n}$ -vr um r=a, e162les... en--- a, biet IL In=a, b1. - by - + V In je konjujel y IR =7 y R, and more my Huge J D <u>alometin</u> I. Lone Jamin ge cupi C° [9, 67 y ogho cy He L² Hopmy Huji Konntentet. II fill L_2 : = ($\int c |f(x)|^2 dx$)^{1/2} yngracualo: Hoten fuEC°[9,0] futz f ≠ C°[a, 6] Eugoxola vierpense o pulcitoj M. ged. f: (M1, d1) -> (M2, d2) Kottuyeuguja and F2E(0,1) ug: $4x_{1}j\in M_{1}$ $d_{1}(f(x), f(j)) \leq 2 \cdot d_{1}(x, j)(*).$ $\underline{\operatorname{Mump}}$ $f:\mathbb{R}\to\mathbb{R}$, $f(x)=\alpha\cdot x$ $|\alpha|<1$ $d(f(x),f(y)) = |ax - ay| = |a| \cdot |x - y| \le g d(x, y)$ Hursonerte. Icostripaturge je ybei Heifenngte. E > 0 $\delta_{:} = \frac{E}{2}$ d(x,y) < J = 1 d(x,y) < gd(x,y) $<2, \frac{e}{9} = \epsilon$ Howeverte. And barry (*) 3a g >0 (He more < L), 04g a ce f sole Nuriveryolo 0. Typing: f knoce CL => f ji Nutinnyoba He [9,6] $\mathcal{F}_{P} | f(x) - f(y)| = |f'(y)| (x - y)| = |f'(y)| \cdot |x - y| \leq M \cdot |x - y|$ Kaipettolt of. He tupeking up FT (Laurada a dur main inalina) M harritania (M in

$$\begin{array}{c} (1) \quad (1)$$

Jukapola meopene gud. jig Herretter (y IR). (y) x'(t) = f(t, x) 2((t) Herro 3 Hours & Je (1. jega) Hueg ji purabano (yinderom He 3 Homo) $II_{mup}, x'=f(t) \quad x(t) = \int f(t)dt \quad t \leq C$ llagen g.j. (B) whe purers a? Kuga une ji grus and summerse $\frac{|k_{0}y_{y}-j_{1}|_{S}}{|k_{3}|_{S}} \mathcal{L}^{1}(t) = f(t, x) \quad ce \quad \forall reverse y reve$ $\underline{J[\mu}, \chi' = \chi \qquad \chi(t) = Ce^{t} \chi$ $\chi(b) = \chi_{c} =)$ ($e^{b} = \chi_{c} =)$ ($e^{-\chi_{c}}$) ($e^{-\chi_{c}} = \chi_{c} = e^{-\chi_{c}}$) ($e^{-\chi_{c}} = \chi_{c} = e^{-\chi_{c}}$) get. f(t,x), f: Ix U? Autumpela no x JHu & op Mito wo t $\frac{\pi}{R} = \frac{\pi}{R} \left(\frac{1}{12} \log \log n \log 2 \operatorname{eR}^{n} \right)$ are JL, $d(f(t, \lambda), f(t, \gamma)) = |f(t, \lambda) - f(t, \gamma)| \le L \cdot b_{L-2}/$ V-CT L-Anninguyoba 100Henrothere fji novenno Autiviungola no 20 ymbopnus no t ano 4000 EU FU. 720 wg. FL>0

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$$|f(t,x) - f(t,y)| = |a| \cdot |by| \leq L|by|$$

2. $f(\eta x) = axsint$ $|f(t, x) - f(t, y)| = |a|| intl ||x - y| \leq |a| |x - y|$ (Tu) copola in o et su a computer up figurations. per 27)(Tu) copola in the transformation of the period of the

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