Пирренения в ные уравнения 1-ого порядка. Опр. Дидрер уравнением 1-ого порядка назыв. Typ-ue Buga: oc = v(x, b), rge x e R", te R, V : R" R" Oup. Pemerenen gupp up no reazort of une 9(8), φ(6) s (a, e) → R", (a, e) ⊂ R / H ∈ (a, e): = 3(φ(θ), t) On Price 15 your your bust of get toux (8, x1), (6, x2) & D: 15(6, x1) - 5(6, x2) < C |x1-x2 Onp. 1 20 = U(t, 20) - ombrekanne peurenes stoir s-not 22(to) = 26 KazorBaetar Zagaret Kanen 130 (to, 20) 6 D Meglenea (II) Del yp-ul &=v(b,x), v & C(B), VE Lipx (D) pensence BR c (bo, x) ED vok Bonuze m. (bo, to) F-et u. - no. Daver rores V- va gla parverus From zagaru collagator da nefece retecu cix money wol on pagenereed Ja a) = $(x = x(t), t \in (\alpha, \beta)$ - percenter, τ , e, x (t) = t (t) t (tS) Econ mehpep. x(b) μα t ∈ (x, p) - pemerene write p ypabreasens, no 6 cens v ∈ (x, p) ->

y npabous ractu J- www yp- & ecos speer bogues Ima uporezbogread = of (b, x(b) => x = x(b) - greptep. +-yo x=b(f,xff)=> x=x(f)-penerene, foro yor-a abileros в) Возмен В = 1 (x-x) + (8-t) = 2 2 2 03/ В с 9) и m := max / v (6, x) (в = 7-ет, т.м. В - откр. отпоть) Foramen, wo peneture name 3K It waltedted o Browning: xolb) = 000, Sto (u, xo (u)) du k s 1,2,xx(t):= x0+ 50 (21, Xx-1(48) dy Ha T= Itod, total repagnère Drux o-vent paxogoras Z-we Sn+, = xn+, (+)= x0(+)+ (x,(+)-x0(+))+ ... (+)
ecre peg Sn+, exogetal, to peg 3xn+, 3 morre exogetal 7 & > 0 - const gus o € Lipx (A) => 1) 1x, (+)-x, (+) = 15 v(u, x, (u)) du | < m | t - t o | 2) $|x_{0}(t)-x_{1}(t)| = |\int_{0}^{t} (u, x_{1}(u))du - 2 (u, x_{0}(u))du| \leq \int_{0}^{t} m|u-t_{0}du|$ 3) The ungy kulue: $|x_{1}(t)-x_{1}(t)| \leq \frac{1}{2} \sum_{n=1}^{t} |x_{1}(u)-x_{0}(u)| + \frac{1}{2} \sum_{n=$ => xo(1)+(x,(1)-xo(1))+ - pog exog a oc. (no remember upon)

(5. K. m2n 16-10n+1 < m2n 1n+1 - exoguerces)

(5. K. (n+1)! 16-10n+1 < m2n 1n+1 - exoguerces) => (*) cymea fyrkes poga nempeporbera na I, s.e. 1/2 (4) = 3 x (4) 2 x (4) 2 x (4) du = 15 (4, x (4)) du

m.k. xn xx, v- reent. u st- onfeger.) => x(t) = x + 50 (u, x (u))du 1 50 (u, x, (w) du - v(u, x(w) du | 5 51 - 1 de (1/20 < 1/6 - to 1 max (x(u) - xn(u)) Tpouseur TOK I - us penseur organis reports

S - paccros une or T. (to, xo) go of un m:= max vol => d2+m2d2 5 p2 => d= Jm217 2) \times - un rpageese remargne & source $\frac{1}{2}$ in no ca - 76 \times h+1 (b) = \times + \int $\frac{1}{2}$ (u, \times h(u)) du to-d $\frac{1}{2}$ + $\frac{1}{2}$ to +3 $\frac{1}{2}$ (\times h+1(t), \times (t)) = $\max_{t} |x_{n+1}(t) - x(t)|$, m.e. $g(x_n(t), x_n(t)) = \max_{t \in S, t_0 + t} \frac{1}{t} \frac{1}{t}$ npie Ld<1 omosp f: xn > xn+x - cuiellarceisee File. g(f''(x), f''+'(x)) < Ldg(f''n(x), f''(x)) neuesee noer-16 (f"(xo)) - pyrganeuranbug 6 mp be vemp & ineu

y groso oroop. I - was venog 6. 7. x (fix) = x =>

pensence no f equicer become (mare depice 2-e

venog 6. moren u boz biere is f neemgy dieneur u >>

g y menueuralb >> 2 => f-a nerog 6. morea j g) Demandet 9010-76, 100 & peul 3k colonagant va venf. obliaeru anjege eenens. X Om informbuoro: 6.00 pagemence conpaga 01 ×2 to to B1 B2 t

me It / 1 < t < min 1 B1, B2 3, cobragaior, reserve to
(t, x(t)) = D'n 6 6 - cobragaior pagainics => to = 6 , 5 k naval you 3 k colonagacos => () percence 3k c (* x (6)) = 1 65 suzu t * => ()