The Breoze dysenesces y use renpeposaroció u Juppeperintupperioció res Breox quix quix Onp. 4 F: O(x, y) - R, O(x, y) - R, F(x, y) =0 town I 0/20/4 I f. 0/20) - R/F/x f(x) = 0 + x & 0(x0) no roboher, umo F zagaém neabre of-uno t. Theopena (I P, D/x, y) - R/1) F(x, y) = 0 2) F E E (O(x, y)) coop 3 waka 3F/2 > 0, K - c yestifious (x, y) hedra (x - a) was (x, y) hedra (x - a) was (x, y) B) => F(x, y+h) > 0 u F (x, y-h) < 0 => (F.K. F & C(K)) # 8, >0/ F(x, y°+h)>0 upu |x-x°|<0, 5=min (5, 82)

8, >0/ F(x, y°-h)<0 upu |x-x°|<82 2) Due too piece RE (8(xº) paccustficule 4/2, 0): Ly-h, y-th]-1R/F(2c,y)=4(x,y)

Dul + xe Os(x°) weecen: 4 (x, o) ∈ C[y°-h, y°+h]

1,0 прошен. 4 = (3+ >0 = 411)

3 начениях = y = y(x) / 4 (x, y(x)) = 0. => 7 x e Os(x) 3! y(x)=f(x)/4(x,f(x))=F(x,f(x))=0 Knowne Toro, y(x°, f(x)) => f(x°) = y ° 6 cury! Ball.: 1 you of e C(O(x)) - ne reconsologobaren 2. Fal. Beopereror => f & C'(05*(2)) gis veros. 8 >00 1) Hago f & C(Os*(x°)), T.e. Tã E Os*(x°): TE 20 78-0/12-21-8-> |f(n)-f(n)|<2 (fec(2)) $|f(x) - f(x)| \le |f(x) - f(x)| + |f(x)| + |f(x)| \le 2h \le 2$ $|f(x) - f(x)| = |f(x) - f(x)| + |f(x)| = 2h \le 2$ |f(x)| = |fMarp. Fx (x+B, ax, y+ay) ax + Fy (x, y+B, by) by (5) F; (x,y)+α, α>0 ε τη (x,y)+β,β>0

ΔΧ,Δη>0 ε σενεί κεμρ-τη Fx' γ Fy

(x,y)Δχ+ Fy (x,y)Δγ + ΔΔΥ + βΔγ, α,β>

ΔΧ,Δη-λο σο σενεί κεμρ-τη Εχ' γ Fy

(x,y)Δχ+ Fy (x,y)Δγ + ΔΔΥ + βΔγ, α,β> 3) $\Delta x \rightarrow 0$: $y' = f'(x) = \lim_{\Delta x \rightarrow 0} \frac{A}{\Delta x} = F_x(x,y) \in C(0_{\delta}(x))$ $F_y(x,y) \in C(0_{\delta}(x))$ $F_{\delta}(x,y) \in C(0_{\delta}(x))$ Meophere (reelbhard o- und ged f-mer yp-mis) = Closico)
TF, G: O(x, y, x) -> R/
1 = 0(x) = 1, 50(x) 30(x) 3,50000 1) 1=(x, y, zo) = 6(x, y, 7)=0 => F(x, F(x), g(x))= /261 f(x)=y° ~ g(x)+z° 2) F, BE C1(O(x, y, 79))