LEREGUSI.

MARAGREE MHOROSOPASUA

LEOPENIA O REZIBREET P-ULU

Yyo WELX, SO

F: UxV->P2 U,VCB TOURA (xo,yo)=UxV F(xo,yo)=0

ECRU $F: U \times V \rightarrow \mathbb{R} - \text{MAROE}$ $(xo, yo) \in U \times V \quad u \quad \frac{\partial F}{\partial y} (xo, yo) \neq 0,$ $\text{POTAA } \exists \text{MARAN ORDERMOORS } W$ $\text{POURU} (xo, yo) \cup \text{ORD-TO} \cup \text{CU} \cup$

WHOUNDY CAOBANU: MH-BO NYMEG STORO OTOEPAWERUS NPERCABASERGS PAPULLON 9-UU

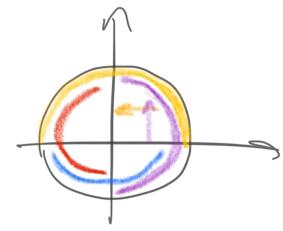
$$F(x,y) = x^2 + y^2 = 0$$

$$\frac{\partial F}{\partial y}(x_0, y_0) = 2y_{-0} \qquad x_{\neq 0}$$

T. 4.
$$y = f(x) = \pm \sqrt{x^2 - 17}$$
 (areanoreverse)

2 | R P-lus F=xy nouncerus TEOPERUS O NESIBHOG 9-UU HEN639

NOCTPOUN ATNAC ANS OKP-TY



(BEPXHAU NOVADEL-OP UB= (K,y) | X2+y2=1, y>03 $\varphi_{B}: U_{B} \longrightarrow \mathbb{R} \quad \varphi_{B}(x) = x$

2) NPABASI $u_n = \frac{1}{2}(x, y)(x^2 + y^2 = 1, x > 0)$ φn: (x,y) ->y

43n=4no 43 : X-> VI-X21

MPOBERUM, WTO OTOFPALLI. MEBOUPOLUMANERO $\frac{\partial V_{Bh}}{\partial x} = \frac{1}{2} \frac{-2x}{1-x^2}$

allanorales c octabullnuca Raptany

NEMMA. ECMY Y TOURU P MIK-BA ECMY Y TOURU P MIK-BA ECMY Y TOUR Y TO MEA STOM MIK-BE E B WHAYYUPBANNET TONONDRUM E CTPYRTYPA MAAROTO MIKOTOOOPAJUS

28:35 3AAAUA US NUCTRA (OPOPNYMI-POBRA) U NOACRASKA

T. O MERBYROU PLUM B MYROPOMEPHONY CAUSURE (UNU TEOPENIA O REABHDRY 0706PALLIERULU)

Nycor $F: (U \times V) \rightarrow \mathbb{R}^m - r \times orob P.$ $V \subset \mathbb{R}^n$ $F(x_0, y_0) = 0 \qquad x_0 = (x_0, ..., x_0^n)$ $Y_0 = (y_0, ..., y_0^n)$ $V_0 = (y_0, ..., y_0^n)$

Ecru
$$J = \frac{\partial F'(x_0, y_0)}{\partial y''(x_0, y_0)} - - \frac{\partial F'(x_0, y_0)}{\partial y''(x_0, y_0)} \neq 0$$

TO f orp-To (x_0, y_0) (x_0, y_0) (x

MPOUSBOAHAS STOPP, 3AAAHHOOO WESBHO:

$$f(x) = -F_y'(x, f(x)) F_x'(x, f(x))$$

B MEDROMEPHON CAYUAE F(...) - N-YA GROSEI

Onp. 1 Persnapred noberxueconsuo

ZCR MAS TARDE MULTO É,

K KOTOPONY B ORP. H TOUKU

NPUNEHUNA TEOPENIA O MEGBHEN

OTOFPAHIENUM NPU NOAKDARWEG

NEPEHYNEPOBBE KOOPAMHAT

$$\int_{X^{2}+y^{2}+2^{2}=1}^{2} F(x,y,z) = x^{2}+y^{2}+z^{2}-1=0$$

$$\frac{\partial F}{\partial x} = 2z$$

$$(x,y,z) = (0,0,0) \notin S^{2} = S^{2} - PErynaphus
nobepxhira$$

PETENSIPHOU NOBEPXHOOTH FRBUS!

1) One. 1.

2) É MORANDRO B ORPECTHOCIL Y CROECT TOURU NPEACTABNAETCA PAPUROM

$$y' = f'(x), ..., y'' = f''(x), x = (x', ..., x'')$$

3) É NOK. DIPERSENSETCS RAR DOPAS OTOEPACHERUS N: U -> RM+n

LE BERROPEI DN JN A.H.B.

CREACTBUE (TEOP. DE DEPATHOU P-MM)

F: U -> R, XOEU U ARDBUAN ZO
(0X) FEV OF AND E ALLTOT

U STOBPALL 9: V-> B", T. 4. 90 F(y)=y, y ∈ V

MORABATE NOOTBO NE MUNULI;

->>> T.O HEZIBHOM OTOGPAUS. 2=>1 F(x,y)= F2(x)-y2 NPCUMEHBEM T. O MEBBY. OROSPACH. T.R. J 70 2 => 3 ECUL NPEARTABNAETER TRAPULON, TO NOWEM noc-us X MS (X, F(X)) m-udr - mr. HESABUC.

3xn - B(xo)

CTPORU N.H.3. => BOIDEDEM US $\frac{\partial N}{\partial x^2}$ NUH. HEBABUC. CTONBUSON

$$\frac{\partial x^{i}}{\partial x^{i}} - \frac{\partial x^{n}}{\partial x^{n}} \neq 0$$

$$\frac{\partial x^{i}}{\partial x^{i}} - \frac{\partial x^{n}}{\partial x^{n}} \neq 0$$

$$\frac{\partial x^{i}}{\partial x^{i}} - \frac{\partial x^{n}}{\partial x^{n}} \neq 0$$

NO T. OF OFPANLOS P-ULL GOODPALL.

$$x', \dots, x^n \mapsto r', \dots, r^{n+m}$$

$$x^i, \dots, x^{in}$$

$$y^{i_1}, \dots, y^{i_n} \mapsto y', \dots, y^n$$