Teorema de la función conversa. f: UCR^ →R, f∈C'(U). Si det Dfa) +0, f tiène una invossa local q definida en un entozno V = b=f(a) un g(b)=a y ge C¹(V). Como f(g(y))=y, Dg(y)=[Df(x)] = 6n x=g(y) (x) =4 -So fecP(U), entones geCP(V).

Teorema de la Principo implicata. F: A < IR x IR M > IR M, FECP(A). Supongamos que F(a, b) = 0 y det (DF (a, b) +0 Existen U 3 a, U CIR^ V > b con V CIR y una vincica f: U -> V tal que, fe cP(U) y F(x, f(x)) =0, 4x60 (1)

NOTA 1. Hemos esoulto X=(X1, -, Xn), y=(J1, -, Ym) - La emandin (1) due que ys, -, ym se poeden despejan en Runción de XI, -, xn en un entereno de b.

NOTA 2 Si F = (F1, -, Fm) y f = (f1, -, fm) de (1) y la regla de la cadena DF + DF DF =0 0, matri-Walmonte $\left(\begin{array}{c}
\frac{\partial F_{1}}{\partial x_{1}}, \dots, \frac{\partial F_{2}}{\partial x_{n}} \\
\frac{\partial F_{2}}{\partial x_{1}}, \dots, \frac{\partial F_{2}}{\partial x_{n}}
\right) + \left(\begin{array}{c}
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