





$$f^{-1}(y) = f^{-1}(y_{\delta}) + (df_{x_{\delta}})^{-1} \cdot (y_{\delta} - y_{\delta})$$
 $+ o(1y_{\delta} - y_{\delta})$ 

Mean Val thun  $f(x_1) - f(x_2) = f'(c)(x_1 - x_2)$ 

for some C history X, 8 X Z

$$f(x_1) - f(x_2) = |f'(c)| |x_1 - x_2|$$

< sup |f| |x1-x2)