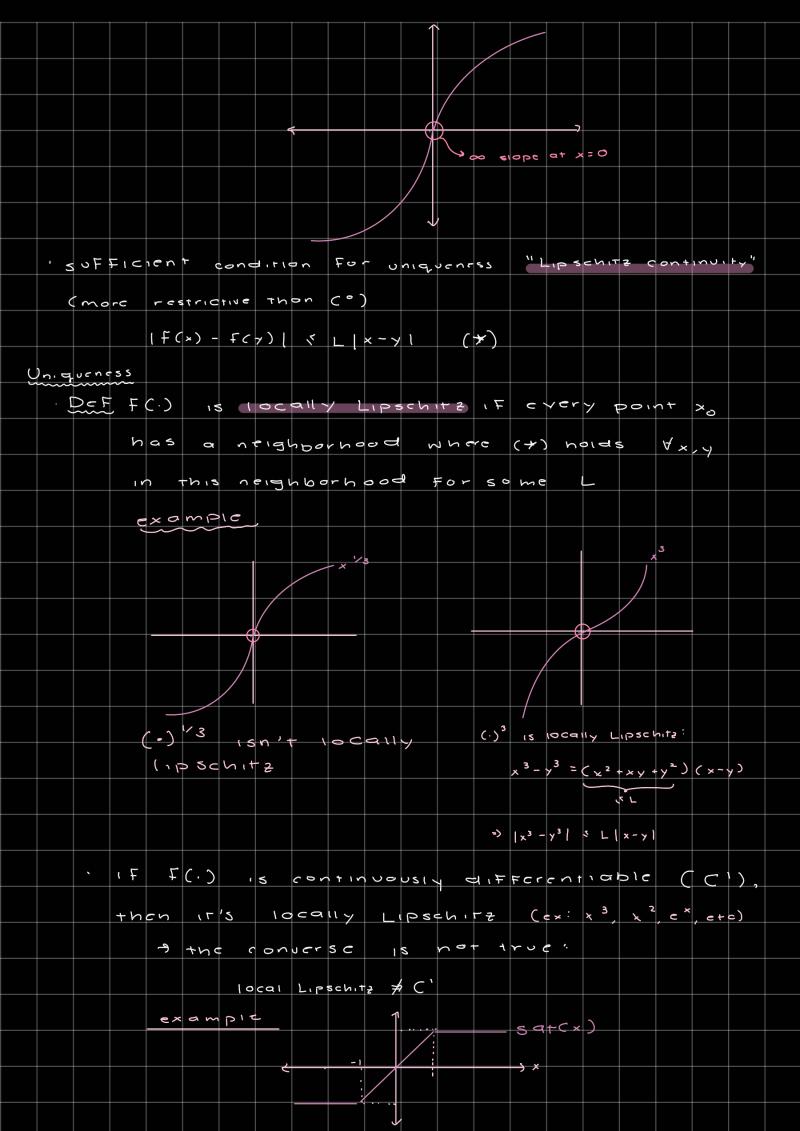
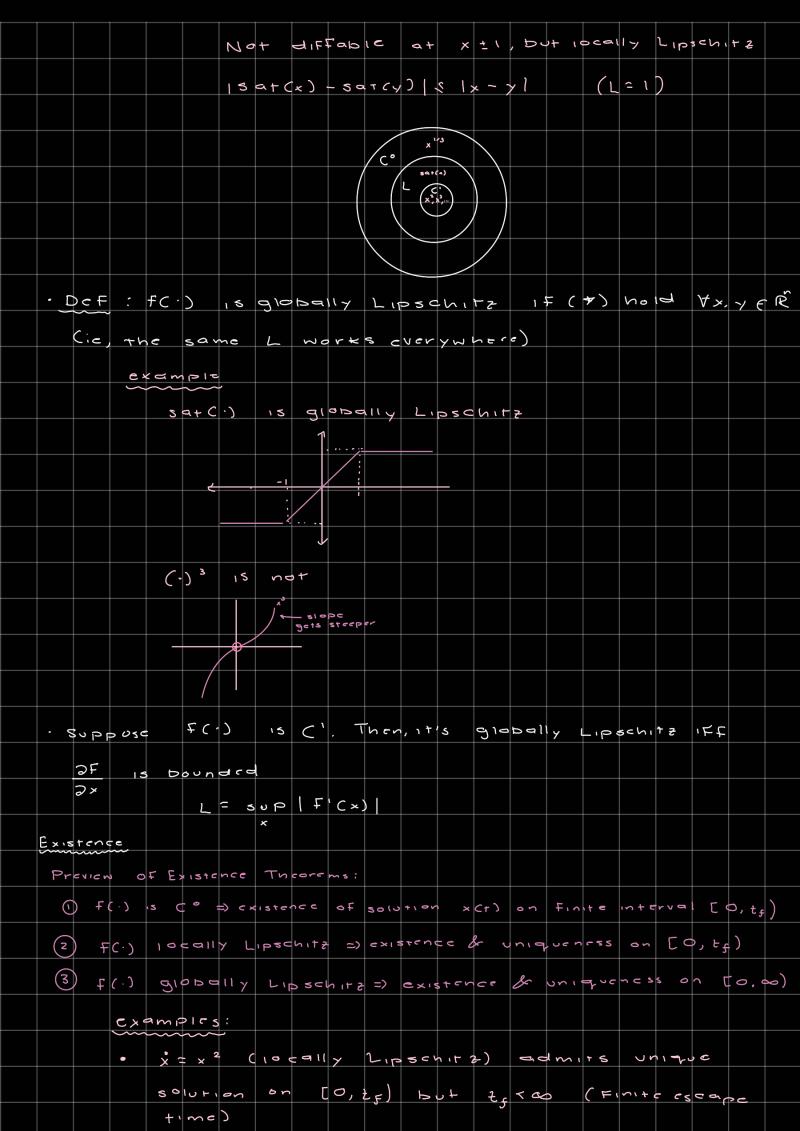
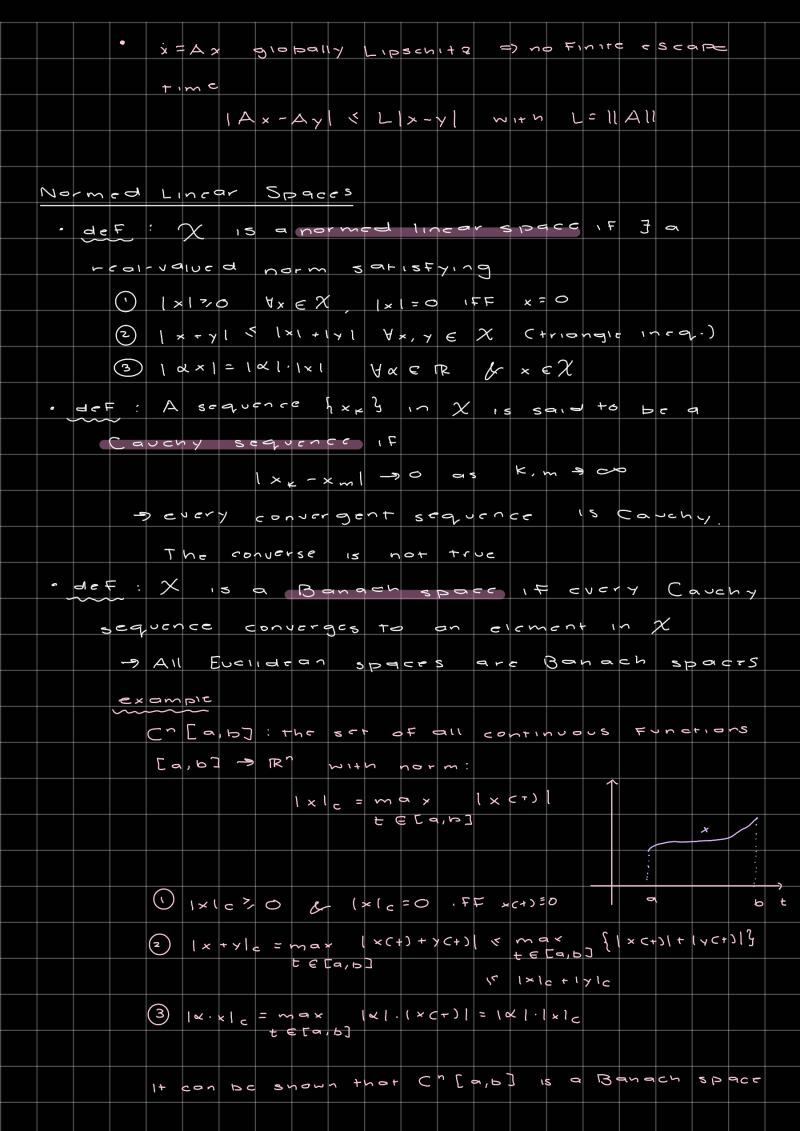
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Fixed Point Theorems (For discrete time systems) 7 C x) = x Browner's Theorem (Euchdean spaces): IF U is a closed, bounded, convex subset of a Evelidean space & T: U? U is continuous, then I has a fixed point in U Schouder's Theorem (Brouner's Thm > Banach spaces) IF U is a closed, Dounded subset of a Banach space X & T: U > U is completely continuous then T has a Fixed point in U continuous & For any Dounded set BEU the closure of T(B) is Contraction Mapping Theorem: IF U is a closed subject of a Banach space & T: U = U is such that ITCx) - TCy) | x plx-yl P<1 Yx, y EU then Thas a unique fixed point in U & the solutions of xnti = T(xn) converge to