## General Cramer Theory

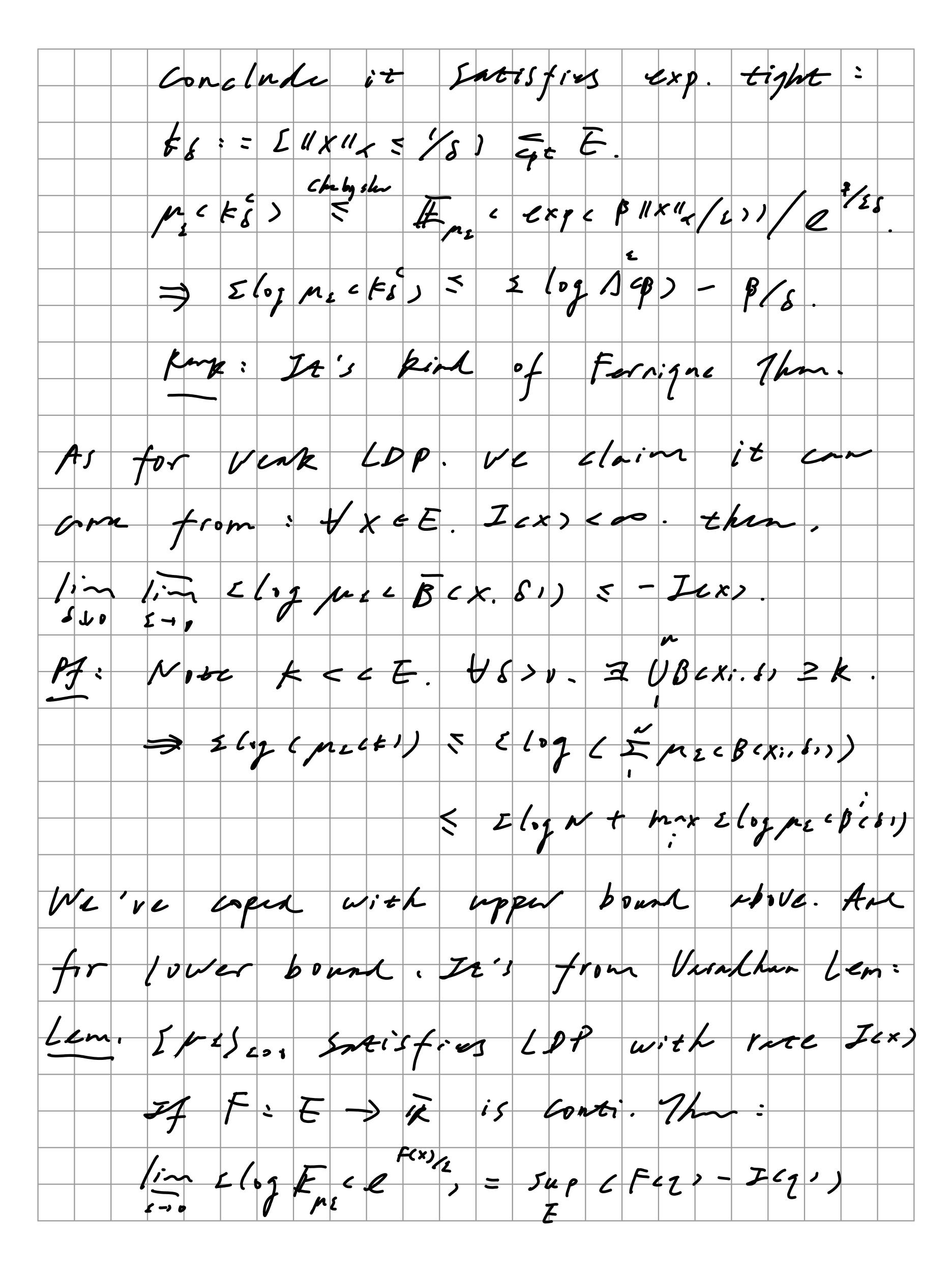
> i) Werk LDP with rate I if the ext : lim & log Me (\*) = - inf I.

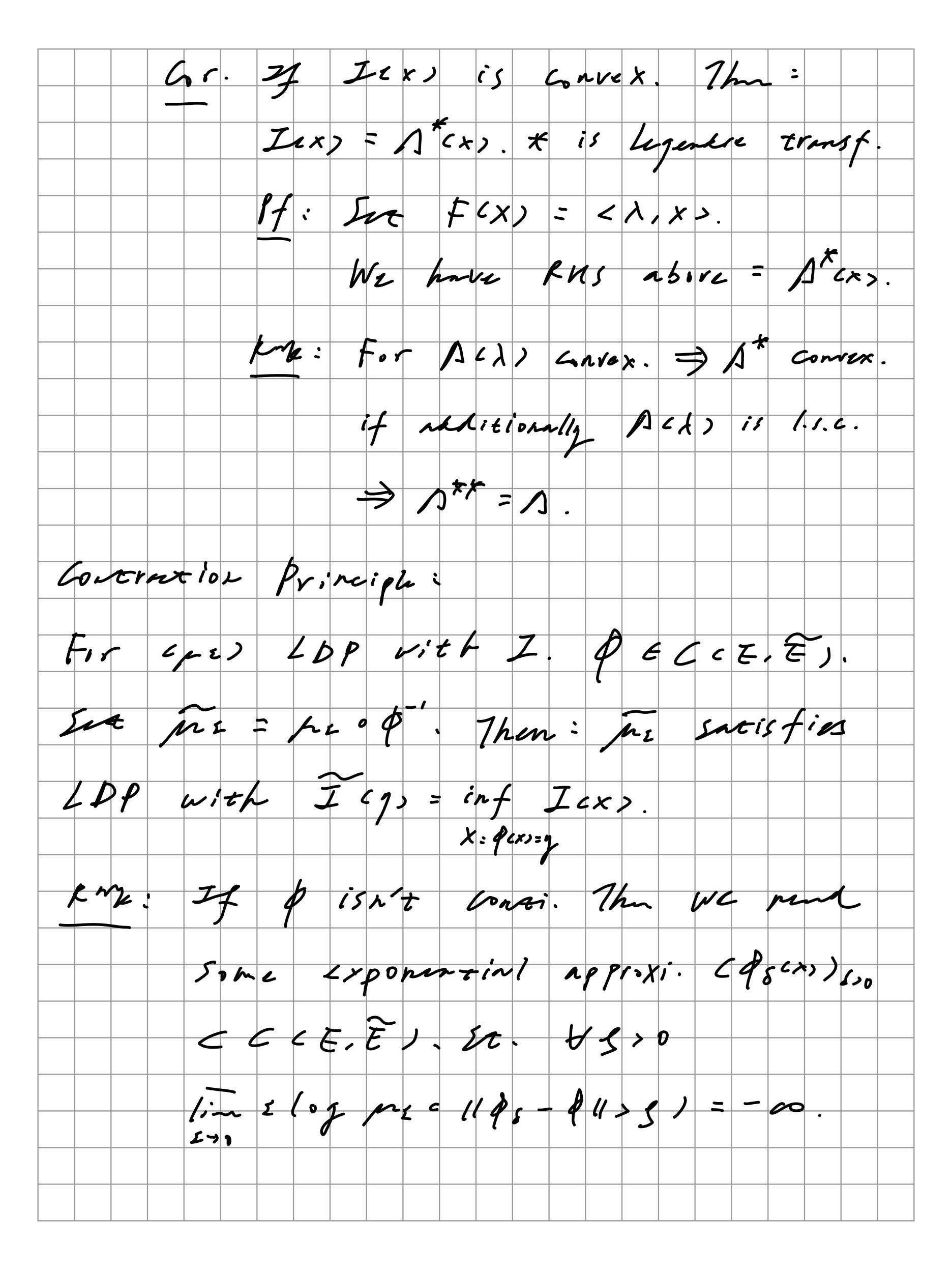
Feedl tightness of Epichero (=) Epil) is apt in cpi+. Wenk-top.). And we can shook ks CE. St. Sup micks) < 8. Next. ve extend it to exponential type:

Def:  $E \neq E$ } satisfies exponential tightness

if  $\forall S > 0$ .  $\exists ks = c \in E$ . Se. We have:  $\lim_{s \to 0} s(og p_E c ks) = -1/s$ .

5 - in f J V - 1/8 + Elog 2. E. St. KimE = + a. Than Bex. R) isn't go Pm: But Simutimes = 4.11, >> 11.11. St. B mng be gt in (E.11.11). Uj: E = CCC.17> DCJC0>=0) with 11.11. 2 11 g 11 = 13 isn't Gt. But if we consider 11.11. a-Kölder norm. then [1]11 = 1] = E. If IB>0. St. BCB) = ling Ilog the ( exp & \$11 x 11/2)) < 0. The we can





iner le cx = t 5 sx m = clr)x P. Next we assume (Xx) is Stationary. by cogilic the , LN -> M. (Xx~x~n.) 1.2 1:- 1PCLNEBCM. 2, ) = 1. 42, 0. I Pr is p.n. Instrictul in 82 EXX) rive its LDP 1 50 ~ IPN AND ON is Stationers FN = Lon/21pm Healip):= lim Meanipm) Where Heven = | Fr log An Am RM. For Xx i.i. X. We have Mcanlpr) = MMcRIP). Log CPNCLNEBLO-Es) anclneBlo.Es) = 605 [(/ Fr' L L N C 1 L N C B C B C B C B )]. en: Blog Fr') Rove. (P) = - /B /og Fr. Fr. LPv.

