## 12 SUNET

AY HA MHOROOFPABURIX x=f(x,t) xeM X: I -> M X- RACATEABHERE BERTOP Onp.  $28:(-\epsilon,\epsilon) \rightarrow M unu \rightarrow \mathbb{R}^n\mathcal{J}_-$  8(0) = p - puxc. MAARUE KOUBBIE 8 dist(8(t), 8(t))= 5(t) FRBUB-TO MYTEG WE BABUCUT OF RAPTON MENUNA. MYCTO (y,,,yn)-NOR.
CUCTENIA ROOPAWLAT IS ORP. PERP ° y=y(x) onperenter is orp. p · y MAARO (XOTABOLC') SABUCUT OT X • det  $\left(\frac{\partial y_i}{\partial x_j}\right)\Big|_{x=p} \neq 0$ TORMA ECMU 8,8:(-E,E) -> 12", 70

dist(8(t), 8(t)) →0 €) dist(y(8(t)), y(8(t))→0

KACATENOHOE MPOCTBANCTBO R 12"
B TOWNE

LEMMA MYCTO (X1,..., Xn) - MOKAMON.

C. K. B ORPECTHOCTEU P

TORAA 4: TPERN SR

$$[X] \mapsto \left(\frac{\exists x(X(t))}{\exists t}\right) \xrightarrow{\exists x(X(t))}$$

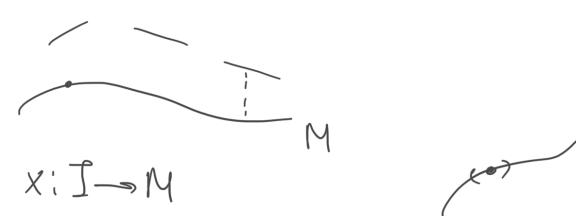
4-6 WEKUSUA, NAWYEM ECNU

(y,..,yn)-APYTAR CUCTETLA ROOPA,

4- COOTBET CTBYWWEE OTOBPAWEHUE, TO

(230 MULLISTA NERUSULU 1.10.20) CB936 KACATENBHUDEX NP-B U MY

F(P,t) & Tp M (=>) F(o,t) - CE VERWE TM



BT. X(t)

$$\dot{x}(t) = [\delta(s) = x(t+s), s \in (-\epsilon, \epsilon)]$$