$\subset^n$
$X :\to^n$
$\Phi_t(x)$
X
$c \in$
$X(c) =$
0
$I_x =$
(a_x, b_x)
$t =$
0
$x \in$
c
$\epsilon >$
0
$\delta >$
0

$$|x-c| < \delta \Rightarrow \forall t \in [0, b_x) : |\Phi_t(x)-c| < \epsilon.$$

c
in-
estable
c
$\epsilon >$
0
$\{x_n\}$
$\{t_n\}$
$t_n \in$
$[0, b_{x_n})$
$x_n \to$
c
$|\Phi_{t_n}(x_n)-$
$c| \geq$
ϵ
c
$X :$
$\mathcal{O} \to^n$
$b_x =$
$+\infty$
$\epsilon >$
0
$\overline{B}(c, \epsilon) \subset$
$\delta >$
0
$|x-$
$c| <$
δ
$t \in$
$[0, b_x)$
$\Phi_t(x) \in$
$B(c, \epsilon)$
$[0, b_x)$
$b_x =$
∞
$c \in$
as-
int-
ti-
ca-
mente
es-
table
$\delta >$
0

$$x \in B(c, \delta) \Rightarrow \lim_{t \to \infty} \Phi_t(x) = 0.$$

$x' =$
Ax
$A \in^{n \times n}$
0
$real\,(\sigma(A)) \subset$
$(-\infty, 0)$
$X :\to^n$
$Y :' \to^n$
C^1
$f :\to'$
X
Y
$c \in$
X
$b :=$
$f(c)$
Y
c
d
De-
mostracin
Ejer-
ci-
cio:
Φ_t^X
Φ_t^Y
X
Y
$y \in'$
$t \in$
I_y

$$\Phi_t^Y = f \circ \Phi_t^X \circ f^{-1}.$$

c
$\epsilon >$
0
f