Theorem Pixed at Telea to: Sint >R and Po! Ran >iR 2 Bi Bounded Comedad open set centaining the above of & (0,2,... Za): Pr(Yel0= Zear), 1 = lear) +0 for Rune nz (i) (Randodnoce) /4(+1)- Yelf) & C for all 15159 Ci) (Trend Hypothoxis) Elysten-Yell 1 HE1=Pe(to Yell) +ou) Civil (Lipschitz) for to and typochitz on DNS(Lz... Zer): +20? Car Uniqueness and existence of the 8d'n to the ODEs (b) For every 800, as s yell = n7e(40) + o(u) and Ernely for all Oct soon for all Islace, where o is the Supremen of x to altich the of of two ox Can be extended bottom within & lu-distance of the bandeny of D. Prof We are only going to prose the ause the specified luter let w= hr. Pard, we prove accompanion of 4(4-2)-4(4). Assume short (ty, 4th/h) is in lo-distance at least 28 from the bandang of \$. D Yltek) = 414 + O(B) (By (i)) YELLES JOD for every kiew Hence (Ele

Proof Cart (CHANCE) Y (teken) - Y (tek) 1 (teken) > Brown brownings. These exists g(n) = o(1) such that E(4(+464) - 4(+80) (+1416) = +(+10, 46)) - s(n) (4(+1) -4(+) - K-P(+1) = (1)) - (COCH) KE We want to chook lipschite: 14(teken)- 4/41 - (Gen) & (Un, 4/4) (n) - (Gen) gcm) - (teks-4 (t) - 2k & (to, th)/n) - kg (n) < 14(+ex+1) - 4(++=)1+ 1+(+1, 4+)/11+13cn/1 sofficiently long andant. Could it (4H/) > wow + Color | Ht) EXD (-C3- gmx)

Proof: Conit	
The law toil on be bounded using exceeding to	re
Some argument, but using submortingale.	
>> Pr(14 (Lew - 4/45 - wf(4/n) / > worn + chose	142
∠ ⊃ ₀ -a.	
(Cloc will fix a daster). Both texts.	
The state of the s	
(So, volve down concentration of 4)	
The second of th	
. But, we also need to man that & follow the from	cety of L.
Next, up are going to compare 4(4) with n2(4/n)	
Détro k; = iw izo, li, io, alure io= [07]	er elektrica
(Ki is tere i'm to the thop) (We drove up the of Cherk" Show at each church	natur aux
	-, the area
We will Show Eley industrint theat! is sweet.	rate park
R-(4(ki)-2(ki)-v/2/2Bi) = O(ie-a)	Kla A
4- (14(ki) - E(a) w(22 ki) = ((ie ")	CALL
where B:= Bw (x+ =) ((1+ Bm) = -1)	
and \$1,781 more \$ =0(1) and B is a content	
Bace are: 1=0: 201= 70, so there is no error	. کند ر ب
Induction! Accuse it holds for the first i chabe	A MARCHANICA
and a some and a contract to you come	LANDE O

I	noof! (cu	+) Approximated by F
		Approximación de la contraction de la contractio
	14(kan)	- 2(Eier). ~ \ = A, + b + A. + A.
	lehere	deproximated by derivation
	A = 40	5 - n. 2 () 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	D= 2 40	(ii) - 4(lei) - wf (ki) (lei)
	μ = ω= (κή) + n2(κή) - n2(κή)	
	کر= ن ^ح	(Ki Y(Ki)) - (Ki) = 100
	(4)	a winds and the said
	And, ue	will board ouch it to drew thout those the own is
	bounded.	$(A^{(1)}(x,y)) = 1$
		steen 11.1 & Bi cate prop > 1-0(ie-a)
		roun troof
) As	2 work + OCotawa) duty propo 2 1-20-2
///		characters a, & gran short score ach), X=0a)
		x = 0 (w ??)
÷ .		is the solution of the ODE and Fis total
	Lipschitz	4 (((((((((((((((((((
	17(KEL	1-2(E) - 2:(E) / = C" W2 for some anstant C">0.
		Is hy Coupe expression.
	Thus, lst.	31 5 Cu Cox
		(A)d. =
		Carlo 12 1257 1 jette 12 time 11 jet Sul 3
		③

