

Suc de Guchy (Rampleto) => Xn -> X, pto hijo X*- (x*) X = + = + (X >) $|X^{+}-X^{++}| \leq \langle X | X^{+}-X^{++}| \Rightarrow |X^{+}-X^{++}| = 0$ Usamos & lipschitz continua K completo Se extende a otras si tradones por ej p: Rd -> Rd //p(x)- d(y) 11 E 8 11 X- X/1, 0(8(1

$$C([0,1]) = \langle f:[0,1] - iR \quad \text{continual}$$

$$V = \int (x) = x_{(0)} + \int F(t',x(t')) dt' \quad \phi(x) \in C([0,1])$$

$$X(t) \quad \text{function confinen}$$

$$| Y'(t) = F(t,x(t)) \\ | Y(0) = X(0)$$

$$Si \quad Y = x = \sum_{x \in X(0)} | X'(t) - F(t,x(t)) \\ | X(0) = X(0)$$

$$O(S) \quad \phi : [a,b] - [a,b] \quad \text{continua} \Rightarrow \text{tene}$$

$$\text{por bo we os un plothjo}$$

$$\text{Vale function}$$

A= < (x, y): 1 < x + y < 2 D'A Des glor de 90° No existe x EA / o(x) = X X 20 pto His

Terrenue Browner

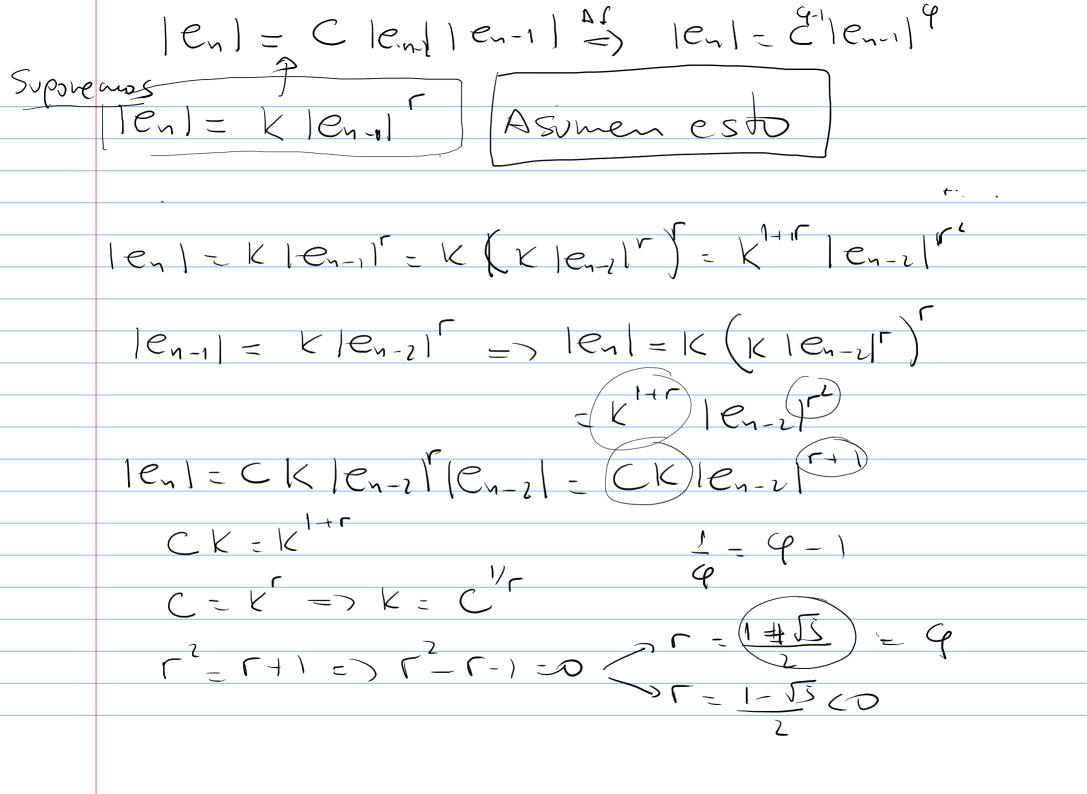
DEIR cerrodo, acotado y contexo

p:D-D => existe por lo helos un plotio

cuttura $\phi(x^4) = x^4$

$$\frac{d_{x}(x)=x \times (1-x)}{d_{x}(x)=x} \frac{d_{x}(x)=x \times (1-x)}{d_{x}(x)=x} \frac{d_{x}(x)=x \times (1-x)}{d_{x}(x)=x} \\
= \frac{d_{x}(x)=x \times (1-x)}{d_{x}(x)=x} \frac{d_{x}(x)=x \times (1-x)}{d_{x}(x)=x}$$

x por det metodo seaente > X+ m(X,- X,/1) 0=P,(x,)-P,(x,)+R(x) 0 = f[xn-1, xn-2] (xx->n) -1 R(xb)



Y" = Y"-1 + y"-5 [|enl=x|en-1||en-2| x0, 1, 22=20-11 -In en - - In en-1 - In en-2] 入り ンプー // - $\lambda_n = A \varphi^n + B \varphi^n$ $\lambda_n = A \varphi^n + B \varphi^n$ $\lambda_n = A \varphi^n + B \varphi^n$ λ~ = λ~-1 -1 λ_{~-}2 1 ~ AY => 1en = e' Apparain method method sparo X = f(t, x, x)) x = f(+, x, x) $\begin{array}{c} X(\circ) = X_{\circ} \\ Y(\circ) = X_{\circ} \end{array}$

Jonamos X(0) = \ arbitrario

USamos Eller, RK, etc.

X(1) = X(1) = X(1)