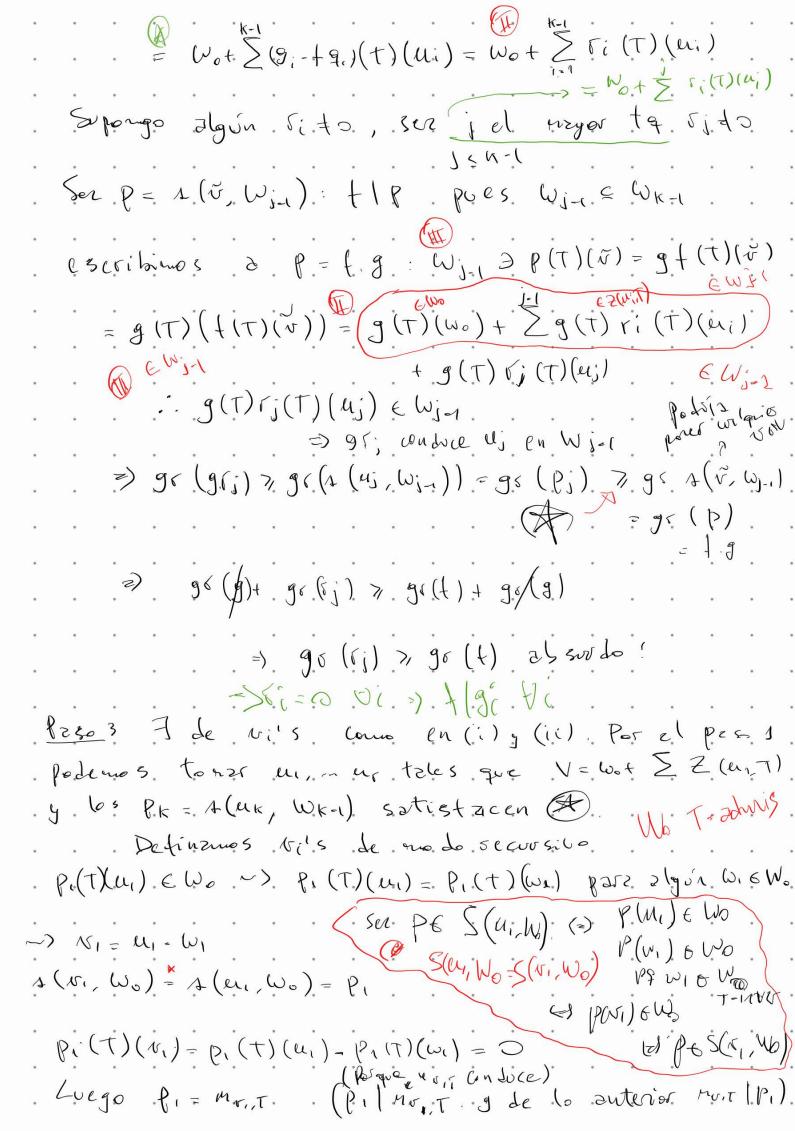
| 10-5   |
|--|
| Leoseur de scorposición cíclion  |
| T:V=W tl din V < \infty,   |
| ) Wo subcopt-demonste 36, Noto   |
| con tanuladores Pr. Pr tales que   |
| (i) V= Wo @ Z(v,T) ( Z(v,T)  |
|  |
|  |
| Mas zon s y la successión de pols pr., pre estan univocamente determinados por (i) (ii) (y el hecho de que los visa o) |
| deno 3 un. 16 to / V= Wo + Z (un, T) + + Z (un, T)   |
| de nodo que si lok=bo+Z(u,T)+.+Z(eu,T)   |
| at the got of the series   |
|  |
| => PK = A (UK, WK-1) (+ el t-conductos)  |
|  |

) Si eno torno u, tq. P, = A(U1, W0)

que scoliza el néximo anterios ~) W,= Wo+ t(4, T)  $1(w_0)$  6.  $w_0$   $1(x_0)$   $(x_0)$   $(x_0)$  (ses pues implication que 1 = uzx (gr (1 (u, wn-1) : u & W! por la toute Vin poleration la conduce à wo pero entonces u ye estèbe en Wo es Wo es V als! Si Wit V elijo uz tal que s(Mz, Wi)=Pi realize Ol weximo auterior, next gr(&(u, W,)): u EN) >pi V2302 Mn's y pn's como en paso 1: 16V  $f = 4(N, W_{K-1})$   $K = 1, -r = ) f(T)(V) \in W_{K-1}$ =  $f(T)(x) = W_0 + \sum_{i=1}^{k-1} g_i(T)(u_i) \quad w_0 \in W_0 \quad g_i \in K[x]$ (ON flgi y wo = f(T)(vo), vo & Wo long & K=1 vev f= 1 (N, Wo) ~> f(T)(N)= f(T)(No) Pere algún vo E Wo. y esto se de duce parque Vo es T-admissible Toneros K>L y tijemos NEV ~> f=A(N, Wu-1) y internos expansión como en a: Escribimos gi=fqi+ri con ri=0 0 05 g5 (ri) < gr (qi) Sez , E = N - \( \frac{1}{21} \)  $(: \Delta(N, W_{K-1}) = \Delta(V, W_{K-1}) = f$   $Z(U_1, T)$  sen T - inv Z = f $W_{K-1} \ni \{(T)(\vec{x}) = \{(T)(x) - \sum_{i=1}^{k} \{(T)q_i(T)(u_i)\}$ 



NE WONZ (MIT) >> N= g(T)(NI) => . KG Z(N,T) .-Frais stain dekex?  $P_{i}(T)(v_{i}) = v_{i} - g(T)(v_{i})$   $= \sum_{i} P_{i}(T)(v_{i})$   $= \sum_{i} P_{i}(T)(v_{i})$ =) g(T)(N)=0 3/10 (P, and or, on respect) In Jucaism  $W_{K-1} \ni P_K(T)(u_K) \stackrel{\text{det Wun}}{=} y_0 + \sum_{i=1}^{K-1} g_i(T)(e_i)$  (7g; 6 K(x))  $P \approx 2$   $P \approx (T)(\omega_0) + \sum_{i=1}^{k-1} P_k h_i(T)(u_i)$ Definings  $V_K = u_K - (w_0 + \sum_{i=1}^{K-1} h_i(T)(u_i)) \Rightarrow \Delta(w_K, w_{h-1}) = \rho_K$ . . ∈ W<sub>K-1</sub>. Adenés PK(T)(NK) = PK(T)(UK) - PK(T)(WO) - Ep; (T)h; (T)(Ni)=0 De la auterió PK = MVKT, Ser VE Z (VK,T) N WKJ 33,9: 6K(X) Wo 6 Wo  $v = g(T)(v_k) = (W_0 + \sum_{i=1}^{K-1} g_i(T)(v_i) \in W_{K-1})$ =) PK/9 (Pg PK Conduce y g(t)(VK) 6 Wa-1 of granula (px anola) g(T)(NK)=0 esto proche (i)

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Vezno 3 (ii) g_{K}(T)(v_{K}) = 0 = 0 + \sum_{i=1}^{K-1} g_{i}(T)(v_{i})
                    =) PKIPi Hick
    passo 4 Unicidad de Vy las pils
  Lema (a) {(T)(Z(V,T))= Z({(v)(T),T)
         (5) V=VIE ~ ( VI. (2d2 vi es T-inux
                    \Rightarrow f(\tau)(h) \oplus \oplus f(\tau)(v_r) = f(\tau)(v)
        (C) MN, t = MR, T => M (t) (v), T = h f(t) (v), T
                  y din Z(+(+)(v),T)=din Z(+(+)(v),T)
Leno (2) (c) Wef(T)(Z(x,T)) ~> 7 gGK(X)/w=f(t)(g(t)(v))
   =) W=g(T)(f(T)(v)) EZ(f(T)(V),T) (?) Gercicio
  (5) f(7)(V_i) + - + f(7)(V_i) = f(7)(V)
    deb. Ne ((T)(V) -> 7 veV/v=f(T)(v) t-zmestre
como NEUy V=Vi+ ·· + Vr -> 3 v, GVi ... Nr & Vr / N=Ni+-+ Vr
         :. N = \frac{1}{T} (T)(\vec{N}) = \frac{1}{T} (T)(N_1) + \dots + \frac{1}{T} (T)(N_0).
                  >> NE + (T)(V1) + + + (T)(V0).
    de la autorior f(t)(4) (-, + f(t)(Ur) = f(T)(V).
 e) pour ver que la som adents es directa.
1(t)(Vk) ⊆ Vk · {(T)(Ui)·n (≥ f(T)(Vj)) ⊆ Ui n ≥ Vj· = 0
      (i, f(t)(V_i) n \ge f(t)(V_j) = 0 ]
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demo unicidad Sern Wi, Ws & O con anulaloses tales que V=Wo ( ¿ Z (wi,T)) 9119in .ti. 5 (V, Wo) = { f & IX [X]: f(T)(x) = Wo} es ideal 9, (T)(N) = 9, (T)(No+ = 7(Wi,T)) = 2, (T)(Wo) + 2 9, (T)(Z(wi, T)) C Wo ( A Si 9, 65(V, W.), (W. conductor) 9, 2 mule Reciprocemente si f 6 5 (U, W.) proce ale vol N= W.(₹) 3; (T)(w;) Et (wist)  $\sim$   $W_o \ni f(\tau)(v) = f(\tau)(\omega_o)(\tau) \not= f(\tau)(\psi_o)(\tau)$ · . + (T) g; (T)(wi) = 0 ti >> q; 1 + g; o) { 3 ; dun/2 2 wi con scapecto a T Si N=W, => g1=1 1 g, =0 sij + 1 => 9,1+1 J de la suterior = \f, es el generos nónico de \\
9, ES(V, Wo) \\
S(V, Wo)

Miro alvorz V=Wo A (AZ(Vi,T)) => S(V,V.) = (P,) Testanos ahore de pinde : 330 minos.

Pring and Ni Nx Pr= 91, 1 PK= 9 K ·) Si K=din W= Wo ( Z(Ni, T)), W= Wo ( Z(w:, t)  $\dim W_0 + \sum_{i=1}^{n} g(P_i) = \lim_{i \to \infty} V = \lim_{i \to \infty} W_0 + \sum_{i=1}^{n} g(P_i)$   $\Rightarrow \sum_{i=1}^{n} g(P_i) = \sum_{i=1}^{n} g_i(Q_i)$ i) Si K<6 ~ Lin Wot > 96 (Pi) < Lin V No 05 W? din Wo + 2 96 (91) 3 Pring Pun Phu (T)(V) = Phu (T)(Wo) ( (Figure (T) (Z(V;,T))) Paleku (T)(Va) & (T)(Vi), T) (D)

Paleku Vanku Junk wunde vanku hego le >> Pkn(T)(K)= (2k+1 (T)(Wo)) (F) (F) Z (Pk+1 (T)(Wi), T) (Wi)  $n \in \mathbb{R}$  and  $\mathbb{R}$   $\mathbb{R}$  con V=W, ⊕ € Z(Wi,T) de (c) y 0 = = = Lin Z(Pu+, (T)(wi), T) zo cede dim eso Mre. T = Pe= 91 = noe, T. LEK. ... PKH. (T) (WKH) = 0. 3) 9 KH1 / KH1

intercontributo Phan | Gran - 7 Phan = 9 141.