27/11

OUGRYISM OF TODAY

-) RECURSING SETS CPANAUS IS WITH PAREDICANSS -

rove LANGR) -> 2600 CNON] -> 7.X

-> MAN-1 EXERCISES

RECURSIUS SETS

ASN > SET = HAS PRODERTIES

XA = SI XEA O XXA

HALTS DOGS NOT HAUT

[XA] -> 1 (#(...) ~ 5(...)

A >> A UB, A 1B

[14 > HOUTING SET]

NOT

> [A Em K]

RE GORSUB (BY DEF-WOREN)

JXIQX TOTAL3

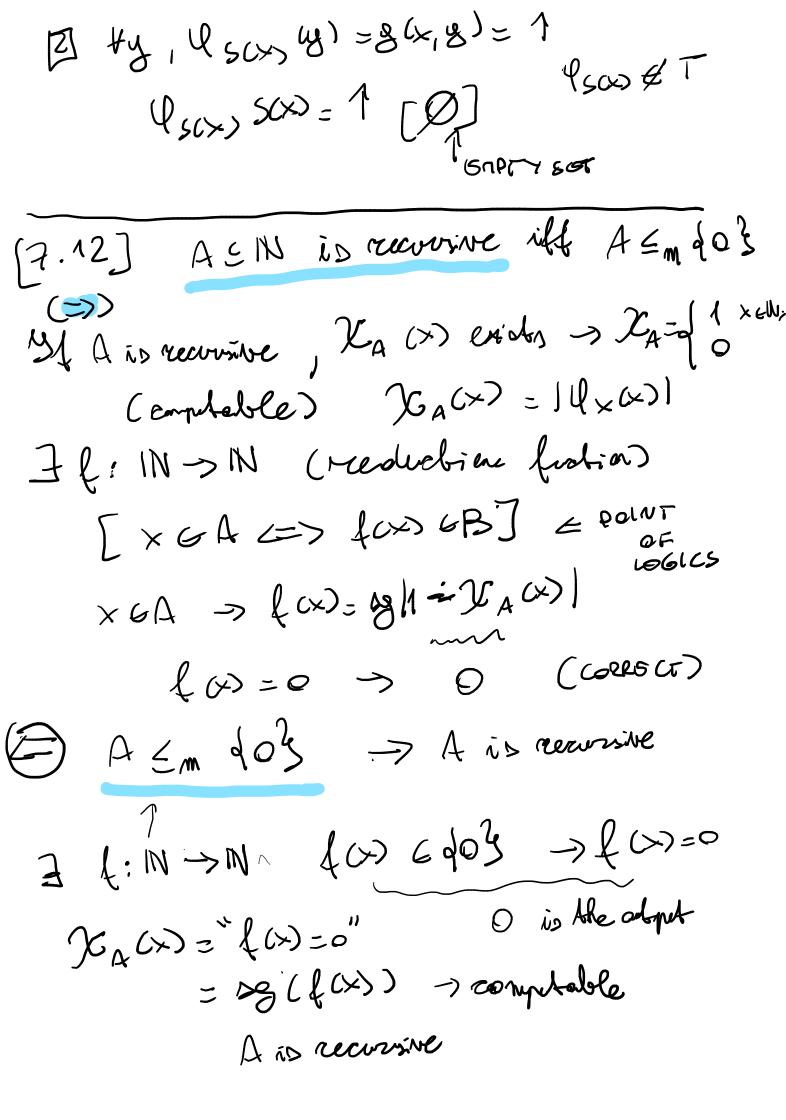
REDUCTION]

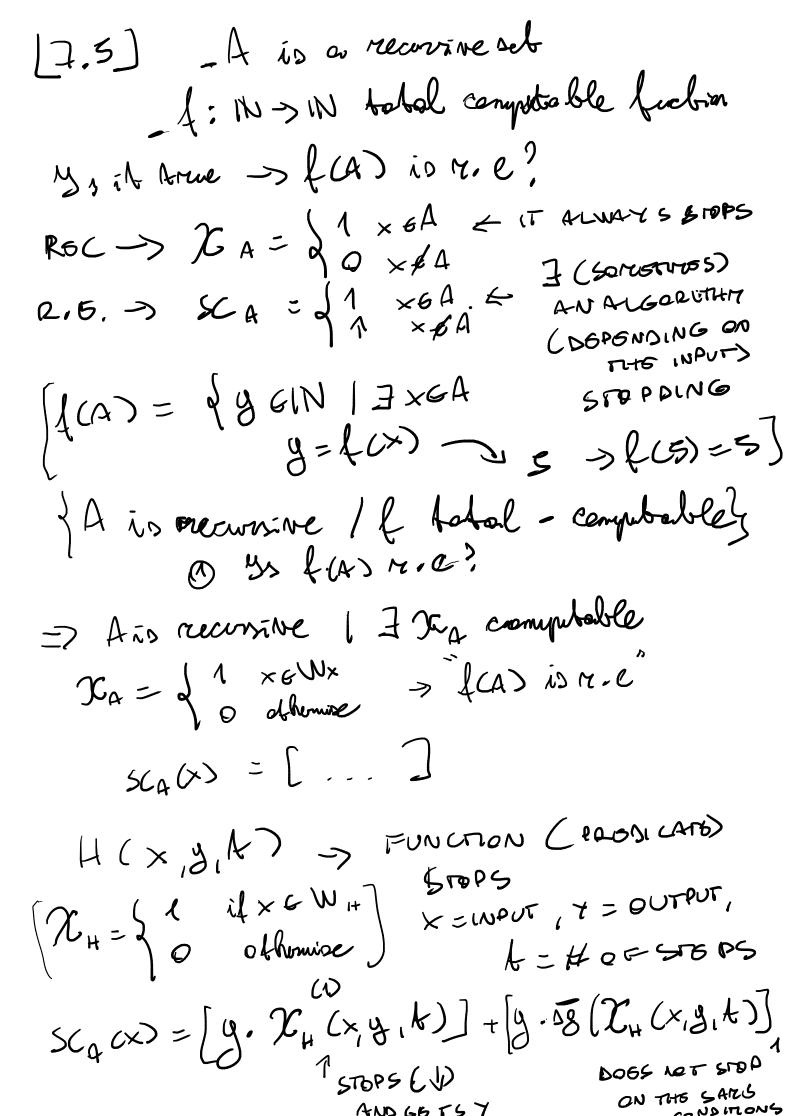
A,B selos

[A] < m B

B16600 9





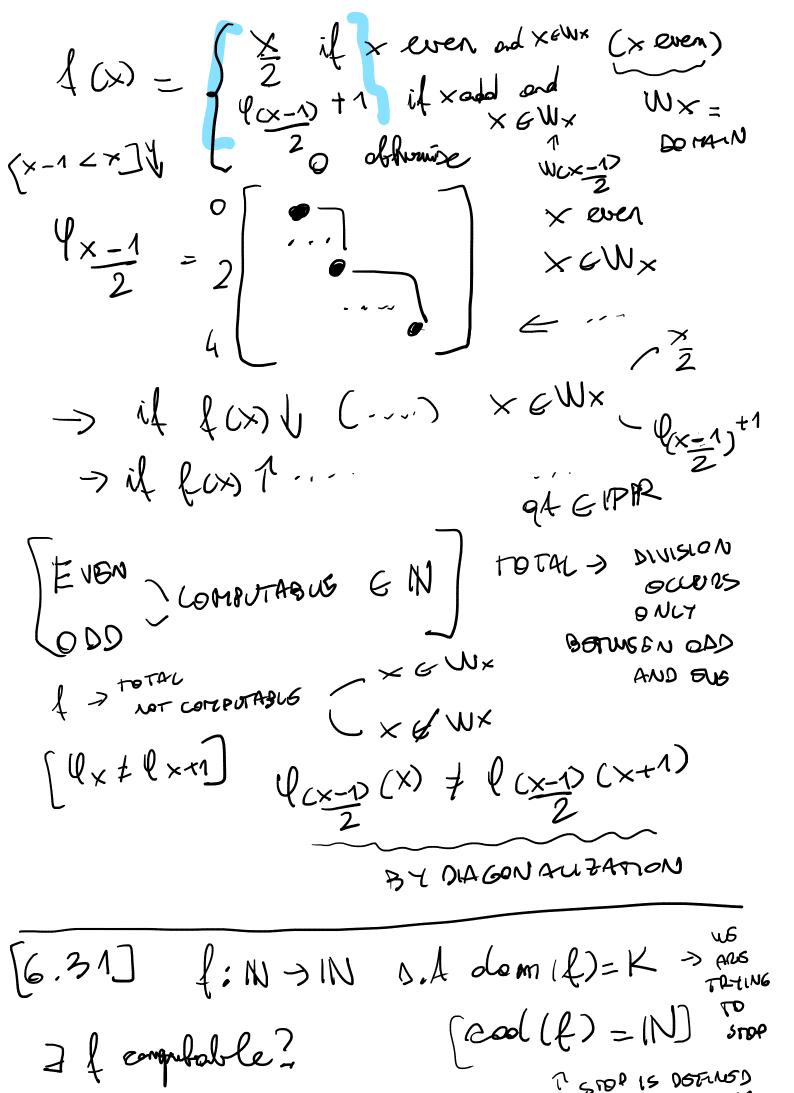


ON THE SAILS

> IT ((W)1,(W)2) 1N486ER 100 NOTATIONS $(w)_1 = y, w_2 = 4$ = 4 [(w), H(x, (w), , w)] + [(w), & H(...)] ONLY BOLNG -> [] 1 M (HINUTE) ONCE 4 [RECUESIVE] -> PRS DICATES A[R.6] (~ HI, I AT"] STRUCTURS PROJECTION =>]x,Q(x,y) (Q) = QUANTIFIED s 10PS ショイ・なのべるい RECUESIUS > DECIDABLE JPCZ,y) b=1

R. 6 > SERI DECIDABLE JPCZ,y) b=1 STATE THIS SMN -THEO USO $\left[\begin{array}{c} \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) = \left(\left(\frac{1}{2}, \frac{1}{2} \right) \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left(\frac{1}{2}, \frac{1}{2} \right) = \left(\frac{1}{2}, \frac{1}{2} \right) \\ \left($ I tobal / conjutable from 5: W->IN |W &xx | = 2x , 15 5(x) | = x

I total 1 not computable s.t. $f(x) = \frac{x}{2}$ (?) $\forall x \in (Y) \text{ (even)}$



T STOP IS DEFINED

 $g(x,y) = \begin{cases} y & [x \in K] \\ T & \text{otherwise} \end{cases}$ Cx4K, 3 (x8) 1 = 1 (xx REDUCTION (MPRACTICS) dera $(f) = k \left(l_{\times}(x) = f(x) = d \right)$ cod(l) = lN $l_{\times}(x) = l_{\times}(x) = d \cdot l_{\times}(x) \cdot l_{$ $f(x) = (ut \cdot H(x, x, t) - 1) \qquad f(x) = \begin{cases} 1 & \text{if } x \in Wx \\ 1 & \text{otherwise} \end{cases}$ (A - c - c - c)(A = STOP ON T # OF STEPS) 0 (0) => H(x,x,t) =x6K | (x0)= $\begin{bmatrix}
1 & \times = 5 \\
4 & \text{otherwise}
\end{bmatrix}$