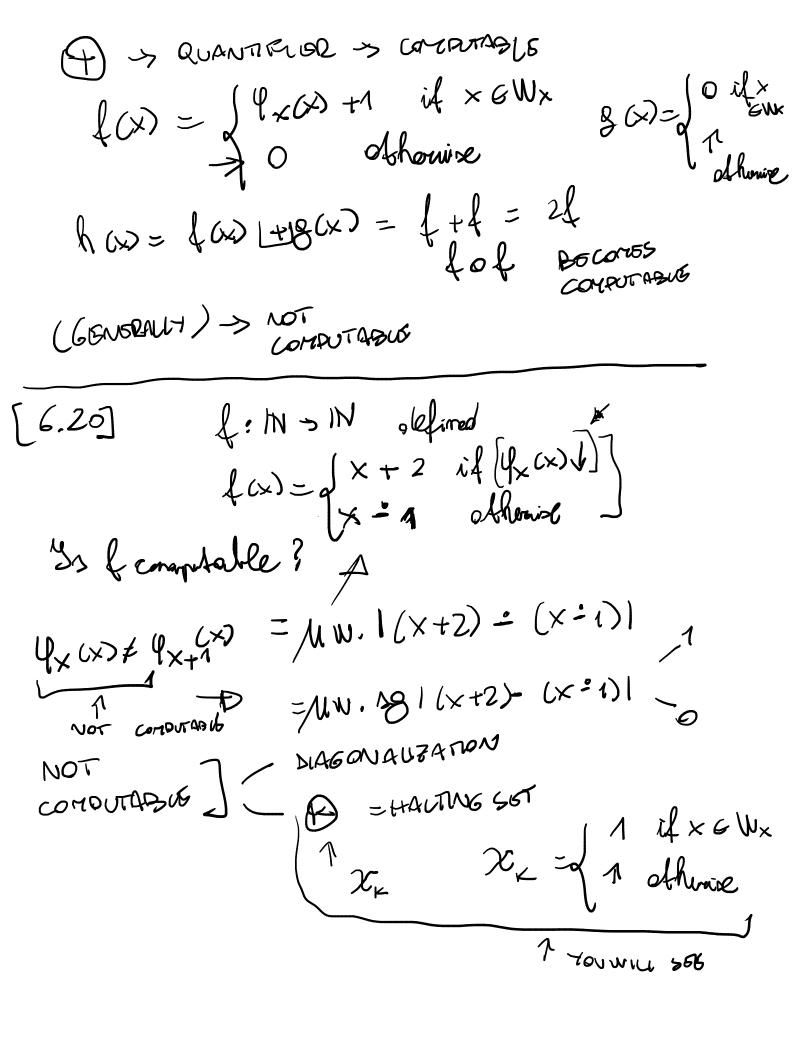
(13/11) > [DIAGO NALIZATION] -> NOT COMPUTABLE
> DIAGO NALIZATION J / NO!
-> STN-THEOUSI
FUNCTION IS NOT COMPUTABLE BY GN STRUCTON P-5047
R=20/1]
COUINTIPUS NOT COUNTABLE
$ > \begin{cases} 1 & (0.3126667) & 0.3.146678 \\ 0.3046648 & (1.2) + (1.2$
2 0.3846648 LC1,2)+ LC2,3)+. LM
> 3 0.310 . [4m] + 4n+1
1 4 1 7 4 ntl
NN
S lym (m) +1 if lym (m) l
$V(M) \geq V$
John Showing
$0 (0 \mathbf{N} = \mathbf{N} 0 \mathbf{A} \mathbf{A} $
C=df: IN => N / fret computable?
$-if (P_m(m)) \rightarrow f(m) = P_m(m) + 1 \neq P_m(m)$ $-if (P_m(m)) \rightarrow f(m) = 0 \neq P_m(m)$
$-i(l_n(n)) \rightarrow l(n) = 0 \neq l_n(n)$
(1) > 1) Non-computance favorial
s.A & g: N>N ftg=(ftg) (x)= low+gcx
is computable



(PARIA METRIZATION) KUBENE INDEX OF A PROGRAM 500 -> 5: N > N $= \left[\left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \left(\frac{1}{2} \right) \right] = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)$ $\begin{cases} g(x,y) = d \times x G(y) \\ q \times G(y) \Rightarrow 1 \end{cases} \rightarrow \begin{cases} g(x,y) \Rightarrow 1 \end{cases}$ [3.3] = STATE MIG SMN - MESONEM (*) I total comput ABUS FUNCTIONS D.A W 56x,8)= 2: X = 7=93 -> 6 50x,8) FIX X TO 65T 4 $g(x,y,z) = \begin{cases} \emptyset & \text{if } k \cdot z = y \end{cases}$ To otherwise = MW./ 38 (X-8/2) PRODICATE 1955 = MW. 58 (94(2,8)) A COMPUT. PUNCTION CGAR) W4(X) / 56(W)

S:N° >N, 2 computable Yx,y, 726 N s.4 Pscx,y) CZ): 3 (x,y,2) (PSCX) (Y) = g (x, y) LAST PART -> CHECK IF OUTPUT WAS PARATE TRUBED - Z & W s (x, y) | g (x, y, z) 1 1 Ws(x,y) = 1 x - 3 = 41 = [Wz = 194 (7,y)] ~ 2 G S s (x, 8) = | Z | x - 7=8 | = (94(2.4)1 [2018-11-18] DOTAIN/INAX] K: IN > IN | Ym GIN | Ux cm) is tabel [total/comp.] BSCX) is the setof integer divisors g: N > N | 8(x,y) s. A (scx) (y)... g(x,y)= [94 (7,8)] if 7 1 x · 7 = y

1 Aherrise

(s(x) y) = g(x,y) \forall x,y &IN > WSOX (y) = of IN3 > GIN , PRESSICATE Q(X) 18 5500 (y) = d x / [94(7,8) to " v d 13] = 28 (rm (7,8) 0 d13 NOT THE IF $\frac{1}{3} \left(\frac{1}{2} \right) = 0$ $\frac{1}{3} \left(\frac{1}{2} \right) = 0$ $\frac{1}{3} \left(\frac{1}{3} \right) = 0$ A LIBRNATIVELY \$ (x,y) = >3 (+m (x,y)) + 23 (+m (x,y)) DIVISION DWISION
IS DEFINED
IS DEFINED Wscxx(y) = 2 × is the divisor? 3 = 2 N3 = {im(x,3)=0"3 ud13 = (3 (rm (x, 8))0 d 1 3 -> x - y G IN] [2017-11-20] (1) STATE THE STAN-THEOREM (4) g:IN =IN -> [Wscx) &) = d xGINI x = M3]

[5 sas (y) = 24 611 / y even theing