Given a word w) we will prove :

Given a word w, let word w be rightmost & left most k chors in w.

This is the complex rule

Want: for ne O ... |w|

(c,6,e) $\in S_{c}$ (x,c,3,r) $\in S_{c}$ (r,3,x) $\neq S_{c}^{rr}$ (r',5,x) \Rightarrow (e,r',6,c) \Rightarrow \Rightarrow (e,r',6,c) \Rightarrow $(e',g_0,6,c')$ \Rightarrow $(e',g_0,6,c')$ \Rightarrow $(e',g_0,6,c')$ \Rightarrow $(e',g_0,6,c')$

Backwards induction

M no E but perhaps nondet

Given a word wi

IF we L(m), then for each ne a... |w|

ofter reading ou [oin], it must be able

to reach a state on w/ S(g, w[mm n:]) > go

(gf final)

SOUNTING MEU!)

The new with then go must be of; and we are done I guess.

Some hew. WI

If n< |w|, then

M[Jain] M [Jam [Jam [Jam [Luio]] M [Luio] M [Jam]

For SM (80, WEOIN) = 80 38+ and 8mr (8+, (W[n:]) > 8n.

Base case is now n=|w| 1 Let go be in Qn S(go, w). First bit trivial. 2nd bit trivial as & so Bn gives Sma (? (w[Iwl:])) = Sme (gr, E) = gr

with pending call gr WEND SONT then (win] " is pending return, so we are in got, w[n]/_ gn+1 and can take (8 nz, 8 p) 8 p') And still in primed state unatch ed call

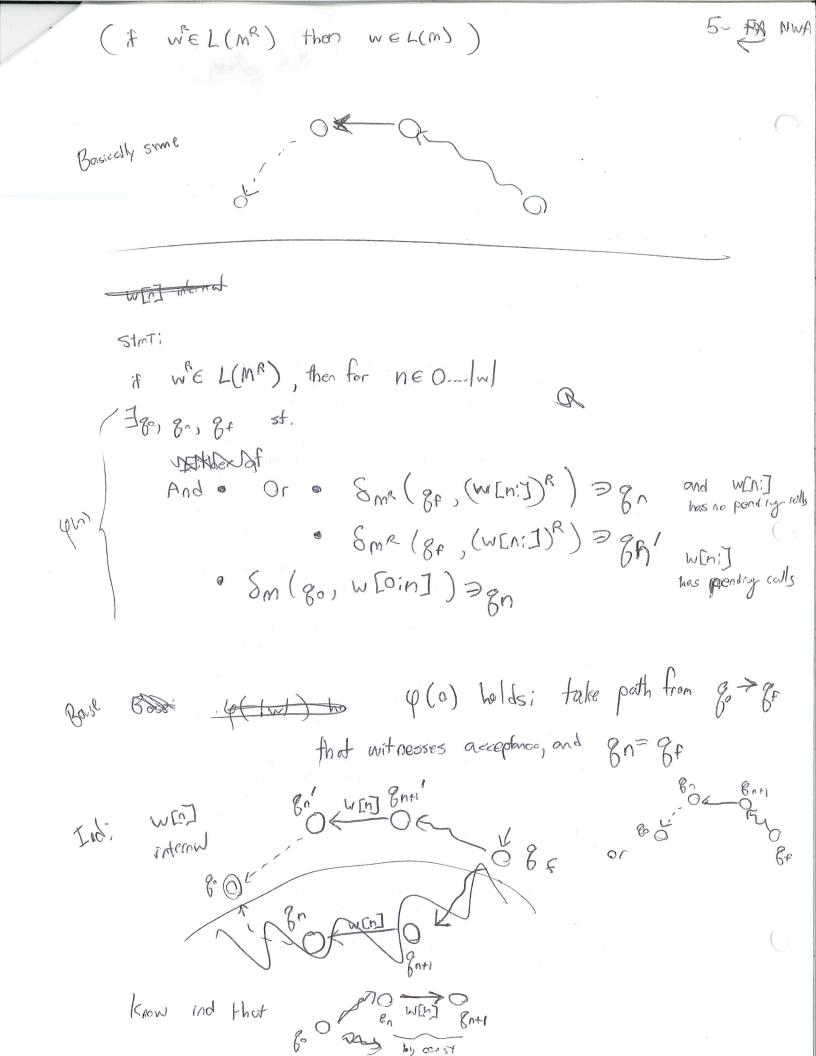
80 WED 30 0 0 1/82 80. Gna gx' 1/8.1

rlg, Enti

WIN

(gn, wend gnow) & Sc (8x,8n, 10, gr) & 8r

(gr+1) 85, 5, gr) (Bon, Br, r, g,')



W[n] perding call (in forward; rotum in back) 80 En well then W is the only way to get this trans in MR poths most go Bott Gn 50 o o o o