70-1/ (Q, E, I, go, S: Qx P > Qx Px EL, R3, ga, g) " languages /expression " DFAs C=7 REXS

PDA C=7 CFGS

TM Prumarator e= (Q, E, M, 80, 8=Qx D > Qx Dx E4R3, 8p) w ∈ L(e) if ε[80] ε ⇒* ×[80] w (8p) U-70,L

20-2/ Suppose I had a Turny decider and	
I mand ed an enomerador	
enumerater := try all strongs on lease	graphic
and if the deriver says yo	\$ <i>,</i>
Hen it prists	
recogniter => enumeration := try all strips "	भ page / वि
enumerator => recogniter == check the output	_
nour say n	
enmostern "in order" -> decider == cleck Meoutput	
say no, of something h	inger philip

70-3/	DFAs					
	1			6	REX	
		(more	expressive)			
	TMs		£7	E	numerators	
	1					
	MT (-	7 410				
	Z					
1	NTM (٥				

20-41 want: an extension of Turing machines
U
Yaempt. 3 stoutput. M(a) = M(b)
a -> b
1m/m
×
Galois connection on a bisimulation

70-5/				
t t	tatinput. 36	Eautput.		
	eval; (a)		evalo(b)	
•	A (omp'k)	\mathcal{B}		
eul		y eval		
\	J	$oldsymbol{\Lambda}$		
0	decompile	Ь		
	•			

20-b) TMs w I a "stay" action

S:
$$G_{\times} \Pi \Rightarrow Q_{\times} \Pi_{\times} \{L,R\}$$
 $S_{S} \cdot Q_{\times} \Pi \Rightarrow Q_{\times} \Pi_{\times} \{L,R,S\}$
 $S(g_{i},\alpha) = (g_{i},b,S)$
 $u[g_{i}]av \Rightarrow u[g_{i}]bv$

20-7/ Stay = input normal tm u [q:]av u [g;]av ub[8;*]v u[8;] bv (.... u[q;]br S(g;,a) = (g;,b,s) =7 S(g;,a) = (g;,b,R) $\forall g_{j} \in Q, S(g_{j}^{*}, \delta) = (g_{j}, \delta, L)$ yen.