DFA M entschooled L

ville Zustände und zide DFA für L braudt mirderas nidex (PL) Zustände 21d: Der Aquiralenz 900 sson autonat Zu Mund L. Sat under (R2)

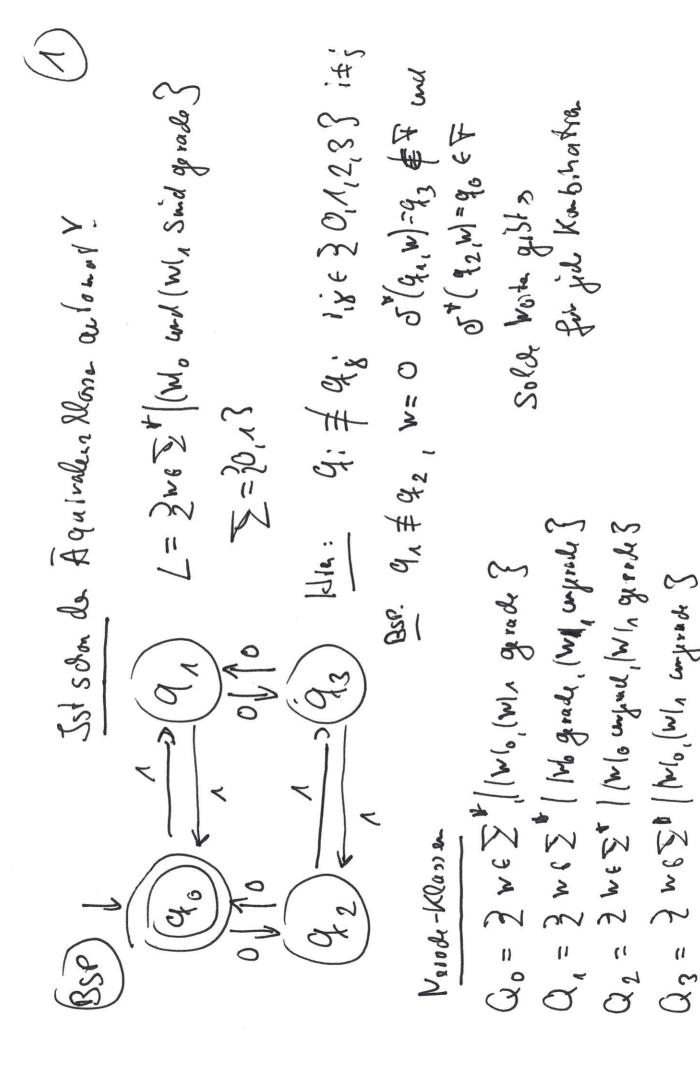
702+ x'x c 2 index (RL) Nerode-Relation RL

x R2y 1 (=>) #26 5": X26 [(=>) 426 L

2 & /RL Auf dollung ran 2 t in (disfunct) Aquivalore 200500

Aquireles Alana andonat And hely va a in Aquiralenz Mason

3



Lewing 9, 17 Jede OFA M for L gat mirdester index (RL) vice Som Willer, -, No 65 mit W; R. W; Bir alle 1 ti Indinki) Ann: DFAM für Les. mit (a/<2. Zustande ([al > where (RL) Q= widex (R2) D>2 O.F. Schisfad Beme's ;

DFA 2x => (0178 11

Jemma 9.18, Sei MA Aquirolar Alessa actorat mit L(M)=L(MN)=L. Dann golt: (QA = widex (RL).

Bows, (Indine) Ann: Sei 2= [ap] und 40, An, 42, -, 48-1 Seien addressen Representente 5219. "="

coso Qn= 3 [Igo] [An] _ , [Igu-il] & MA endscheider L

Und widex(R_L) < |Q_R|, int of (IQ₁II, w_i) = IQ₁II ie 20, 1, 2, -1, 3-1} $\Rightarrow \forall [Q_1]I \in Q_R \exists w_i \in \Sigma^{\frac{4}{8}} \text{ int } O(IQ_1I, w_i) = I[Q_1]I \text{ ie } 20, 1, 2, -1, 3-1}$ Ann. W; all restlicten? a reistlicten wiss

1,5620,1,2,-,2-13 $= > \left(i i \partial_{\alpha} b(R_L) < \left| Q_{\mu} \right| = 2 \right) \quad \text{on ex.} \quad \left(w_{i,i} w_{j} \right) \in R_L \quad i \neq j$ $\leq c d_{\alpha} b \rho_{\alpha} d_{\alpha} < \sum_{i=1}^{n} \left| Q_{\mu} \right| = 2$

(190月, w, 2) 6下 (二) (1912, w, 2) C子 (呼通之) (子) (今) ((中) 上) (上) € (4: ,2) 6F <>> 5 (4; ,2) €F 4; = 4; A Rein 2 Zustinde => willer (R1) > (QA) 7928M <> 792M : N.Z67 <>> N8267 : 23 9 ZA 436 2 : [6] = [6] V265" M & onlocked L 11 = 3 (1 = 11) The 33



Neisal-Inlex WARMIDFAS and schieden MARMAN Korollow ; Gener dis Spraden mit andlichen

(=" DIA ortsoloded L, endleich Zustendemente. MR 584. in man (QR (= widex (RL) endorch V (Se Mos)

"=>" onlider hande-Inkx index(R2) for L N) OFA Same

Q2:= 2 [[u] | ues ? 3 go;= [[su] 7 + 1 = 2 [[u]] (uel 3 Nerod - Antomot: M_ = (QL, 2, J, 90, FL)

1. prohoby first, 2, partscharged and L



Inrd needs va DFA mysolite den ! [= 2 anb" In6 IN 3 Anmondurg ,

as of a mil = EED", a zel = 7 a 2 6 L 15 fall 2 = 6x index (R) = 00 2+2 2,861h

Juring moscline gahne solds Sprada and schoden

=> a, a, a, a, a, -- Reprasalandor ras Ox dea bolosser

Were Anny probleme algor; thund a Mago I/N

Berchny Sapler lit

3.3 Ausgang frage, Regulan Spraden / OFA

(4) (ASS)

DFAS abrephing haden, Stimmy mid da Klasse de 17ge lûnen Sprocken û Daron. Vacorm 3.19 Die koasse da. Spraden, die von

I though Grammak's G for L => I DFA da L outschold.

Idee: M Simularenderia G Kanstradio Z=Z V=Q S=4, 1. Yx, 4, a S(x, a) = 4' => 4-) a4' 6P



A) L(M) = L(G) (beidseily Julgsim)

Beholt W. W. - Wn & L(M)

=> durch ver/1 2431 220 40, 90, 90, -1, 92, 92 F

O(q:-1, M;) = q;

gir Jが安: cP

via Kastralha

=> Asseilay van w w 6 22 13 of sad.

-> Mr M2 ... Wi-1 gi-1 -> WAM2 ... Win Wig -> 90 - MAN - MARG - 30.

> W, W, ... W, gh -> W, W, -- Wn =) Me L(6)

AbarSedup Poly in M pxistint =) W& L(M)

N ← 3

(2)

Achtany!

-> Mr M2 - Wing 4:-1 - Wr W2 -- Wing 4:-

40 → Mg1 → MM2 g2 → 50.

Ableitup Polge RAIStint.

-> W, W2 - Wy qh -> Wx W2 ··· Wy

O (4:-1/2)=4: 1=1,-14

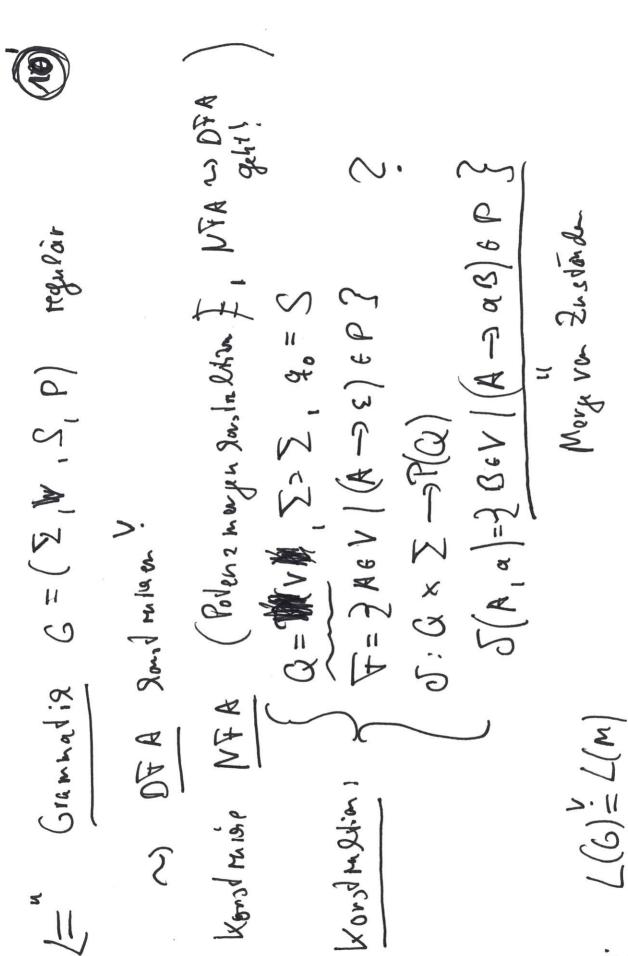
of a fi

Kny L. G

1 3 % 3 = M

N6 L(6) W=W, W2 -- MH & L(6)

(w)7 = (9)7 (8)



Mg.