

6-2) union: (QA, E, Box, &: QA x M(E) => P(QA), ta) (QB, E, gob, Sg:QD x M(E) -> P(QB), HT) Qc= {Start, end} U OxQa U 1xQB Boc = Start Sc (start, E) = [(0, goa), (1,908)] Sc (3hat, Ct2) = Ø Fc = {end} Sc (end, -) = 0 Sc ((0, ga), c) = Ox Sp (ga, c) v in c= e and gate Emes and Sc((1,86), c) = 1 x SB(86, c) u if c=2 and gb e Fb Eends o.w. &

6-3/ concatenation AOB Qc = EAS OXQA U 1xQB goc = (0, goa) S((0,ga), c) = 0 x &(sa,c) U if gasta and te Fe = 1 x FB 2 (1, goB) 3 and Sc ((1/8b), c) = 1 x SD(8b, c)

6-4/ Kleene stan $\mathcal{B}_{\mathcal{X}}$ $X \in B^{\times}$ iff $X = X_{00}X_{10}X_{20} \dots 0 \times n$ s.t. x; e.B îft x c Eez v B o Bx agiaj + Ea, ; } state mothers O 70 rg sdark mad state

6-5/ Wals a	formula for	"enm	length shi	4541
(20,17	١ . ٤٥,١٦)*			
		"odd hum	ders"	
(0, 1)	3 * 0 513			
			regular	
			-express	ions

G-6/ wanted was concadenation on DEAs
Dut we got concert on NFAs
Are NFAs and DFAs equivalenti
v
TAM. Ded
Y dedea. I ne NEA. L(d) = L(n)] - convert
YneNFA, Faco FA, L(n) = L(d) Frampile
Regular Languages REG
3 4