HW #3 Akash Demove inacressible states 92 & 96. Wext, partialion into equivalence class. 9,9394 9,5 non final state Final state No Further partitioning possible since 9,1939 by fare indistinguished V1 93 94) -7 (V5) 2 (a) (a+b+()* 5b b) 0 CO G) (X)* () () * + (ab) * 3) (0+10)*(11) (0+01)*+(0+10)*(0+01)* On the left side, we have all strings that include the substring "II" since they can have a comount of 0 or 10's preceding the "II" & so amount of o or or's following the "11" This makes sure the "11" substring is always padded by or O on either end, and allows for any amount of sololis. The right side is any string without "II" as substring, collection of O's with a stray I sometimes.

3) b) 1 * (0 * 11 *) * 0 * 1 *

Prevent string "010" with parenthesizes

portion since it allows of the only be followed

by a """ or on the outside, my another o.

The left most I serves all strings that stort

with I's d right most I serves all strings

that and with I's.

4) a) S 7 af la B A 7 aBl X B 7 Aa

> b) S-7a4 |a|B A->aB B-74a |a

2) S=7 af lalfa A=7 aB B=7 Aa la

S-7AB | BA A-7 GA 19 B-76B 16

L=(0ⁿ|ⁿ|n7=0)

intid State 5

FA: two Finel States ASB

Transition: State A O S to B I

A HOHO A to B I

B to A O B Lo R