CATS 317 - Homowork #2 1. End (L, a) = {x, X EL and X is ended with a } {ajanjana, maa, ...} then arower Est so inputs being b { a, ba, aa, aba, baa...} we conditive it as 6×0 ×0 2) - 12) NFA ajanjama ...

ba, aba, abbba, 6bba, ...
This would when Hot End (L, a) is a regular language.

L = { a6}

L = {a16}

L= { 16 1 1733

LE = ab3

legran expression

RE=(0+6) - C

Lis giva as ((a = + 666/2 c)*

LE = La

RE=La= ((a a+606) & C) 4 a

Legular expression for End (Lya) = (lag+666) c) &a

5. We can Lousider tre Clastre properties of regular languages too simple Set operations

First through UNION:

(L1 U L2) = L1 U L2, (L1 L2) = L2 L1; (L1) = (L1). E = F . Then E = (P.P)

In this case we would use at farthe revusal arroad of x & FL(E), each x's is in L(F). The Reversal of a Strong in L(F*). Which would be L(E).

4. L = ((an+b66)*c)*bc L = 2 V = Cb (c (666+an)*)*

5. L= (Con a+666) + (a) a * (6+6)

Shortest words in L are {6,6}

6.