

~~GNFA~~

no nfa \rightarrow regex

~~Chomsky Normal Form~~

A

FLIP(A)

$$\delta(q, 0) \rightarrow q_1$$

$$\delta("", 1) \rightarrow ""$$

$$\delta'(q, 1) \rightarrow q_1$$

$$\delta'("", 0) \rightarrow ""$$

Complement

$$A = \{a^n b^n \mid n \geq 0\}$$

\bar{A}

$$\bar{A} = \bar{A}$$

ba

ababa

aabbb

Prove A is not regular

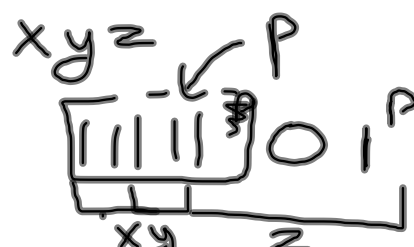
Suppose it is, so the p.l.
must be true

there is a length p

choose string s , $|s| \geq p$

e.g. $s = 1^p 0 1^p$

split s into xyz
 $|xy| \leq p$



show $xyy z \notin A$
or $xz \notin A$

$A \cap B$

