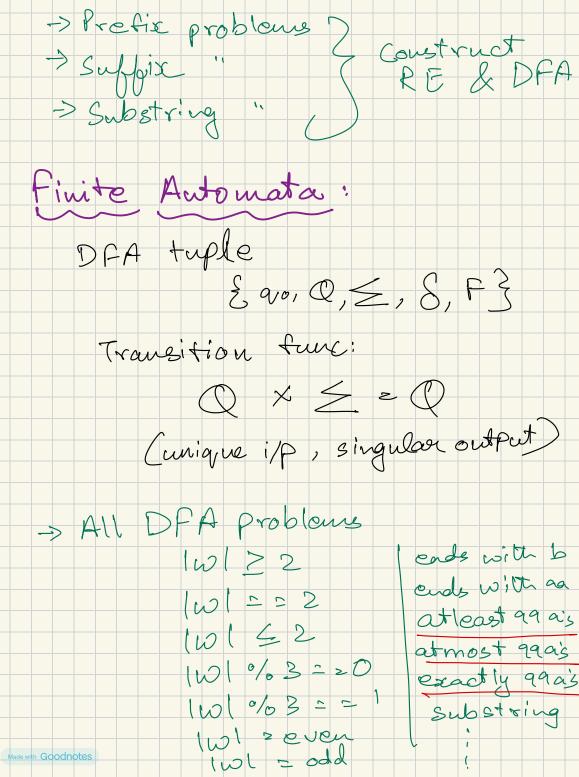
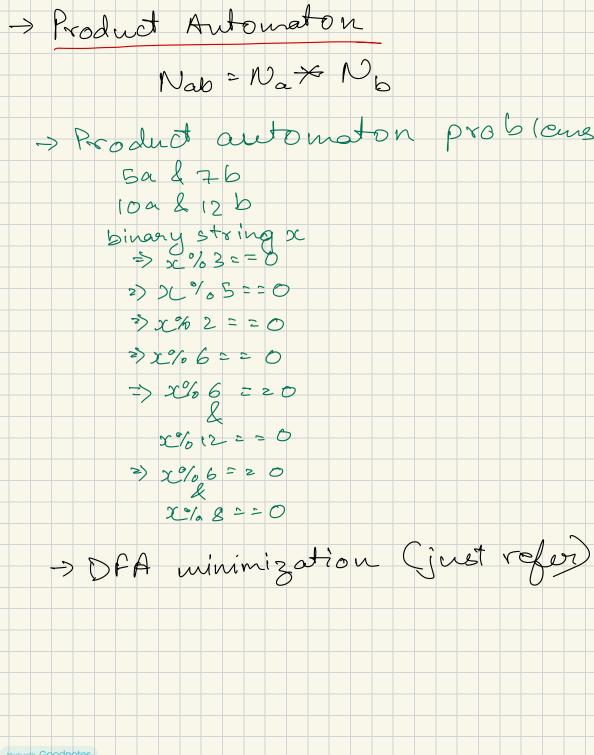
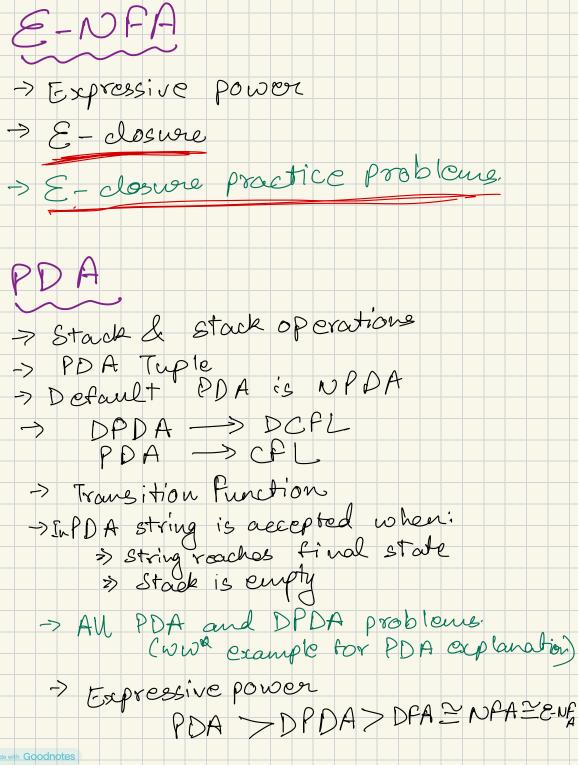
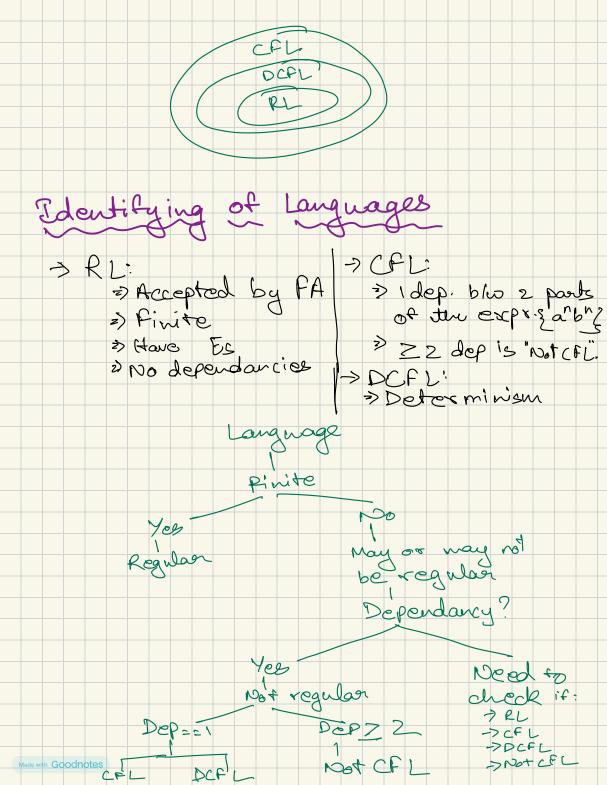
1) Kegular expressions: -> Symbol -> Alphabet Solofinitions -> String -> Language Operators Binary Ovary > Union (+) 5 Kleene's -) Concatenation dosure > Positive dosure > Complement (NL=NE) pro-of states in P. T. O.





NFA: NFA tuple - - -Transition function:  $Q \times \leq = 2^{Q}$ > NPA Problems all -) Conversion to DFA (refor) Identities of RE: > Identifiers > Annihilators -> All identities. Especially (a+b) It NFA has n states, DFA has 2" states





37 Language identification problems: Made with Goodnotes

Grammar > Terminals, Non-terminals, Productions > Regular Grammar renganition: Either Left-linear Grammar Right linear roumar -> Left recursive grammar

> Right recursive grammar

-> Leftmost Derivation

Aight most Derivation Spraductions > Ambignous grammase