

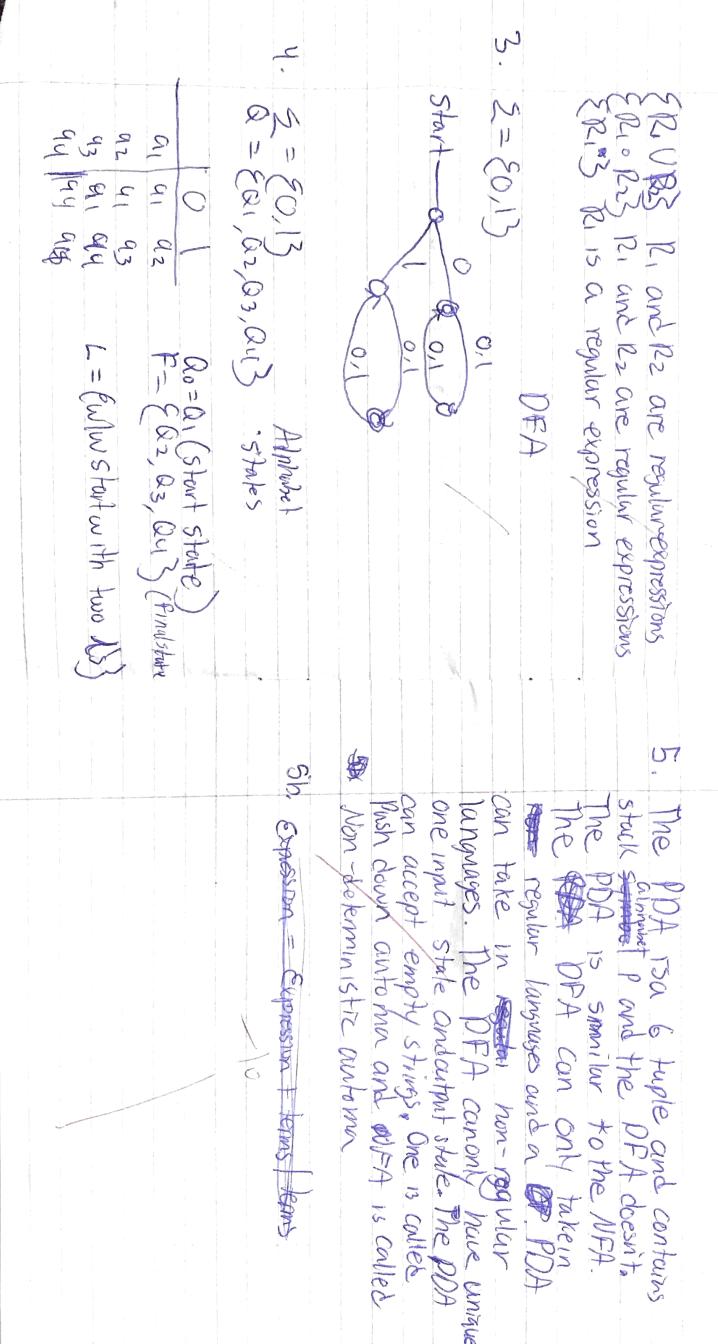
The DFA takes in an input symbol, as state and returns the next state. The NFA takes in an empty string astate and input symbols. Then returns a set of next states. The DFA has a unique output and input. NFA can except an empty string.

A terminal is a set of characters in an alphabet that appear in strings and are generaled by the grammar

A nonterminal variable is a set of for patterns of terminals generated by the nonterminal symbol.

	Most regular to see it languages are Most be recognized by a finite automa,
1	An alphabet is a Finile set of symbols
	CON OF C. S. L.
3	A string contains symbols of the Alphabet that combine to Form
- 1	that combine to form
4.	A language is something that can be
and the state of t	defected by a finite automation
5.	A sequence is a puttern of symbols following some
6.	K-tuple defermines how many rules
	a machine will have determined by K
	So For a GFG, 15 a 4 tuple (VERS)
7.	Ordered pour contains tows symbols that
	are different (0,1) (1,0)
8.	Unordered pair can be the same two
	symbols $(1,1)$ $(2,2)$
	(1)
a.	The Domain is the input of a function
C	F(n)
0	The Range is the output of a function
U	
	f(n) = 2

GFG is a 4 tuple also known as V is the a finite set called variable 2 15 a finite set of variable V, called termin R Is a finit set of rules 5 is the state variable PDA is a 6 typle also known as a Push down automata, EQS, P, 9/2, F? Q is the set of states 2 is the set of input symbols alphabet P is the stack stacks alphabet % is the start state 85 is the transition function F is the accept states Regular Expression: Ea3, Ee3, 0 Assuming



				Con Expression-stant Expression-stant Selection-stant Selection-stant Cour-sant