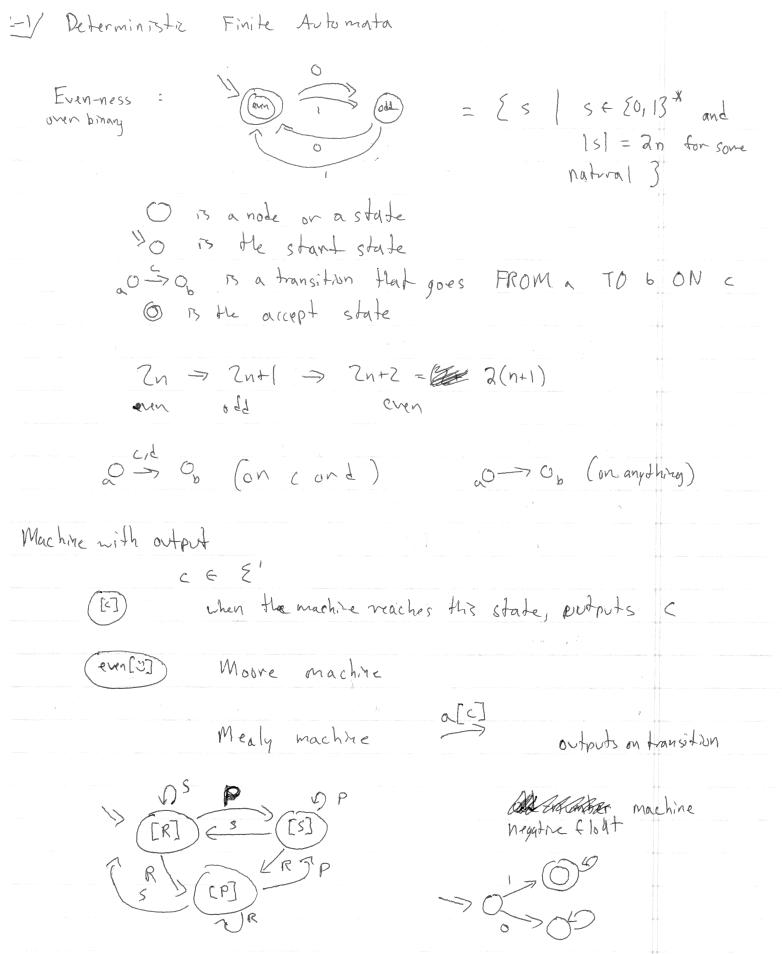
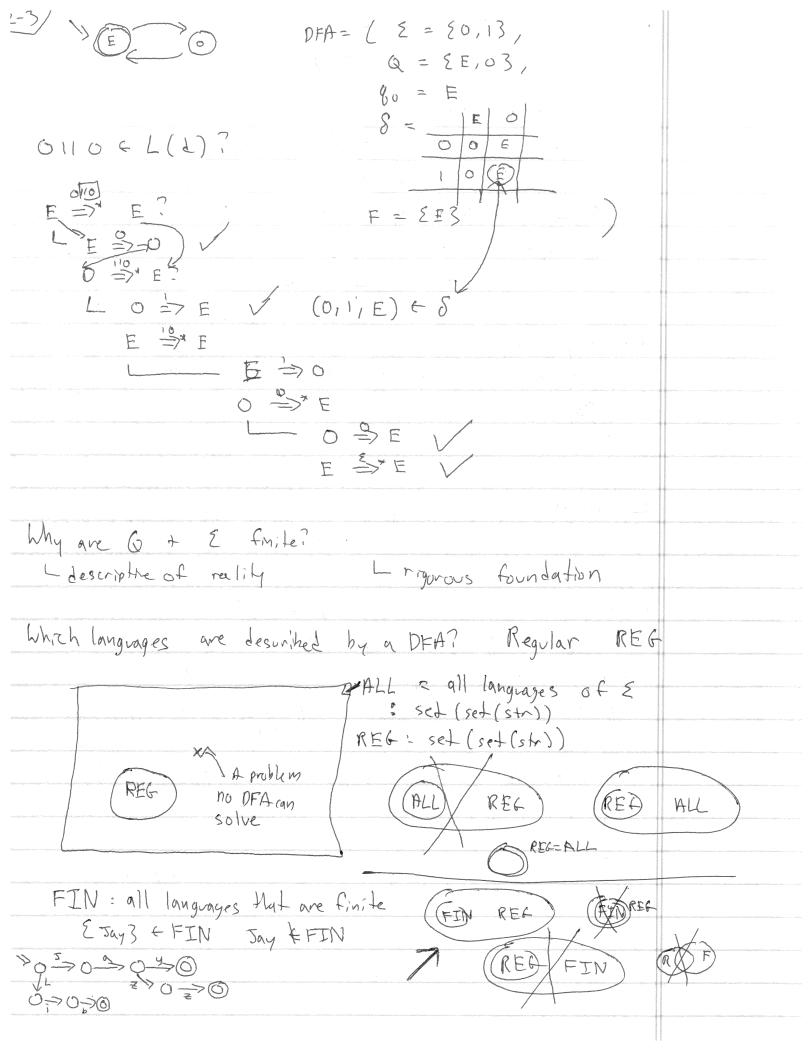
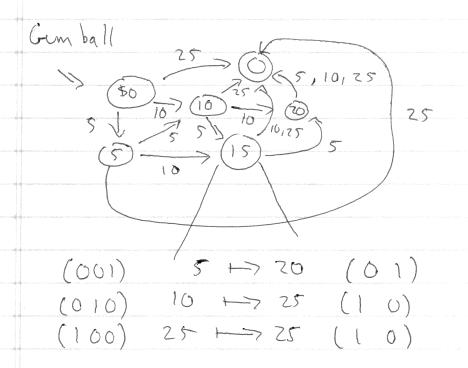
3/	A computer "solves" a problem
	A problem is a language
	The addition problem is a set strings over \$0-9,+3*
	==++3 3+3=6 3+3=18 () "is just the ones that are the"
	The even problem is the set of even-length strongs over E
	The C-factorial is the set of all C-pregnams that complete
distribution de la companya de la c	the factorial of 25.
	The soh of the compute is "recognition"
entral state of the state of th	given a sonna X
	No it is Not in the set
	A computer is a function from string => Etes, Wo3
er entland in in mangel, englig en get en di bette en in en	L not actally
	A computer is a finite typle , C
	A computer semanties. is a finite function, X=> ExIN3



```
A DFA is a 5-tople of
   (E,Q,80,8,F)
  & is some alphabet (fmite)
 Q is a finite stet called states o
 80 EQ the start state "
F = Q the accepting states ©
 S: O x & 7 Q
x a y 8 9
 How many binary DFAs w/ M states?
   4 x 24 x 4 x (4 x 2) = 2048
L(DFA2) = the language of the DFA 2
       = { x | x is accepted by DFA d }
                    X 6 5 8
A string x is accepted by DFA & iff
     80 =>*g; s,+, g; ∈ F
A DFA d runs from g; to g; on x (g; \stackrel{\times}{=})^* g; )
g; \stackrel{E}{=})^* g; g; \Rightarrow g \text{ iff } g; \Rightarrow g; where g; t \in Q
                      A DEA d steps from g; to g; on x (g; => g;)
((q; , \times), g;) \in S
[q_i]_{\times} = 7[q_i]_{Y} = 7...
```



 $\frac{2-4}{\sqrt{2}}$ Well-formed addition equations! $\frac{2-4}{\sqrt{2}}$ $\frac{2-4}{\sqrt{2}}$ $\frac{2-4}{\sqrt{2}}$ $\frac{2-4}{\sqrt{2}}$ $\frac{2-4}{\sqrt{2}}$ Well-formed addition equations! $\frac{2-4}{\sqrt{2}}$ $\frac{2-4}{\sqrt{2}}$



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