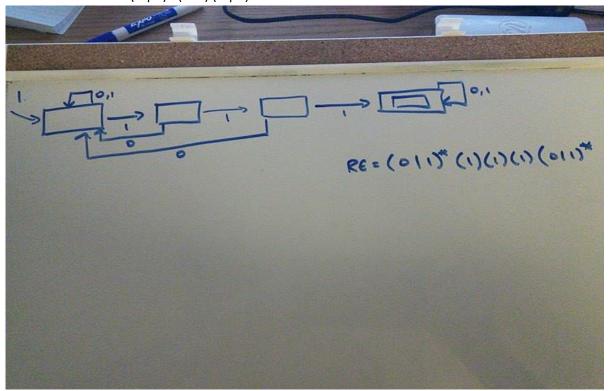
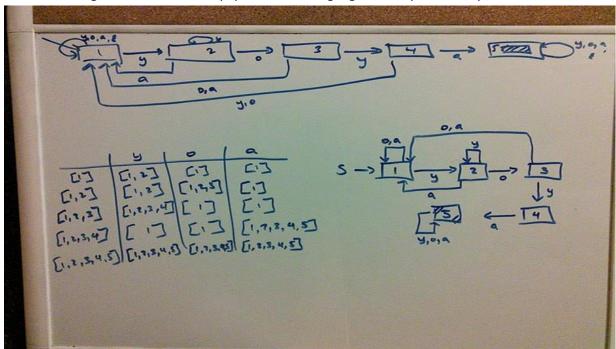
- 1. A string exists in L1 if it has 3 or more 1s in a row somewhere in it.
 - a. $RE = (0 \mid 1)^* (111) (0 \mid 1)^*$



2. A string exists in L1 if it has 'yoya' in it. The language can only have 'a', 'y', 'o'.



- 3. English translations
 - a. $a^* \mid b^* => A$ string exists in L3A if it is epsilon or contains any amount of a's or b's.
 - b. $(ab)^* => A$ string exists in L3B if it is epsilon or repetition of ab 1 or more times.

4. A String exists in L4 if it has at most 2 x's and more x's than y's.

