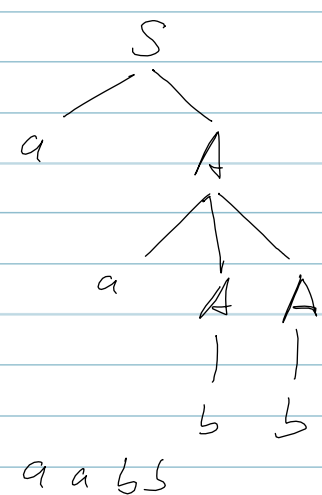


2)  $S \rightarrow aA | bB$   
 $A \rightarrow aAA | bS | b$   
 $B \rightarrow bBB | aS | a$

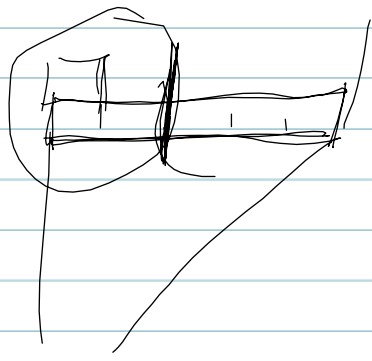
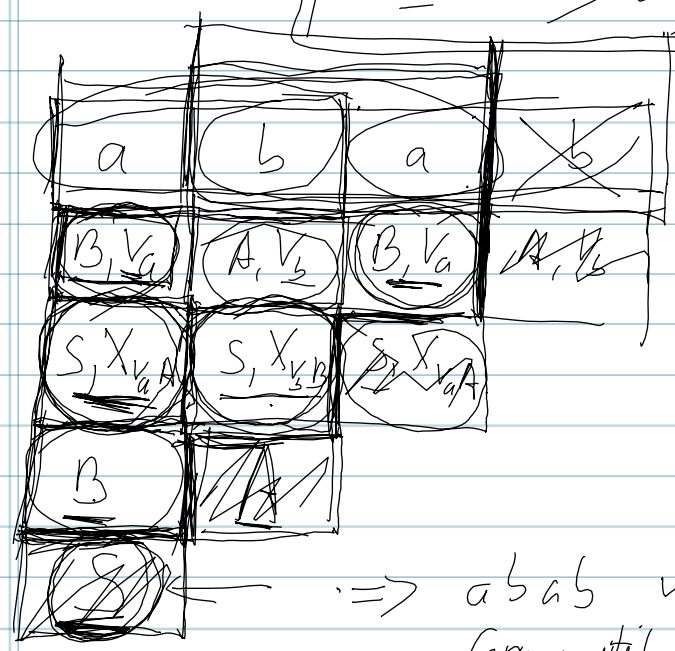


a)

b) A: es fehlt noch ein b  
 B: n u u u u a

$$\{w \in \{a,b\}^* \mid |w|_a = |w|_b\}$$

c) CKK  $S \rightarrow \underline{V_a} A | V_b B$   $V_a \rightarrow a$   
 $A \rightarrow \underline{V_a} A A | \underline{V_b} S | b | X_{V_a} A A$   $V_b \rightarrow b$   
 $B \rightarrow \underline{V_b} B B | \underline{V_a} S | a | X_{V_b} B B$   $X_{V_a} A \rightarrow V_a A$   
 $X_{V_b} B \rightarrow V_b B$



$\Rightarrow$  abab in der Grammatik generiert wird.