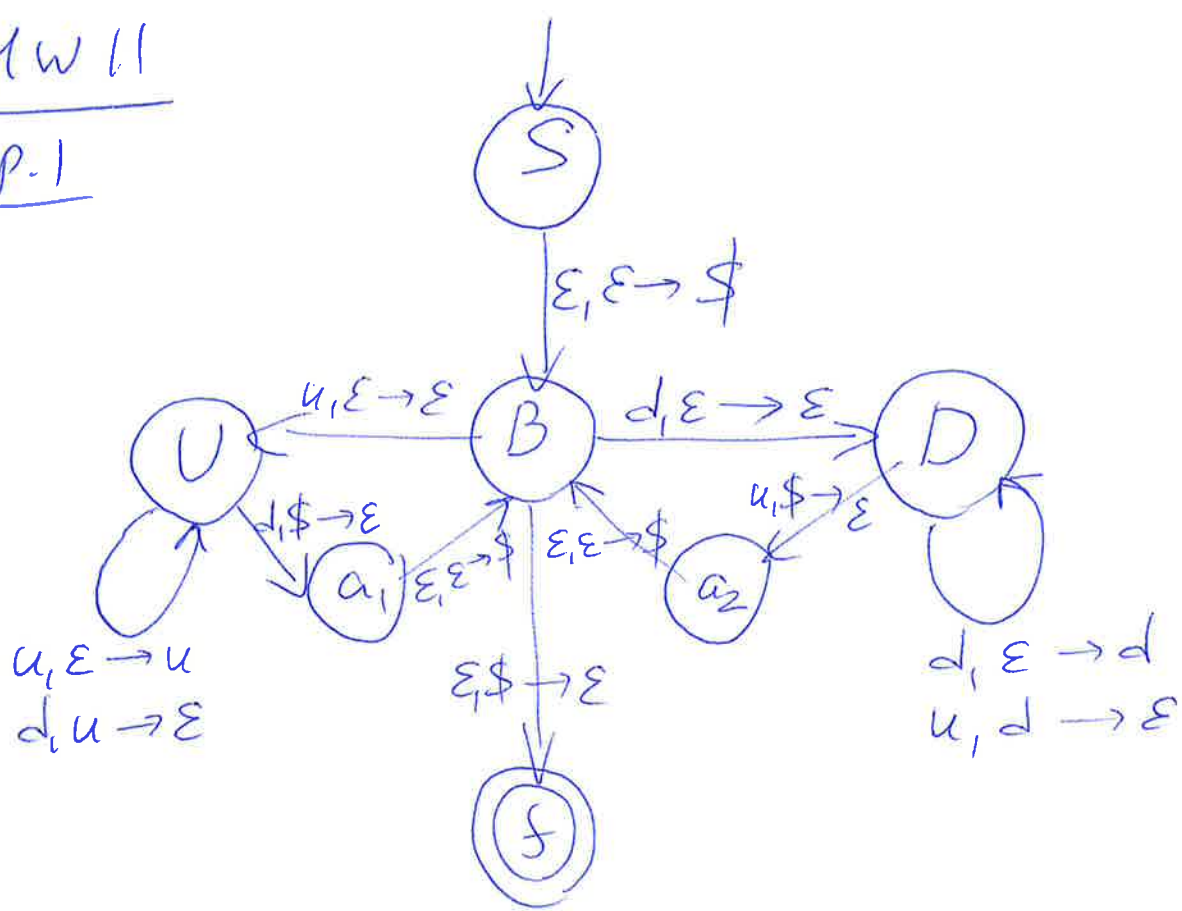
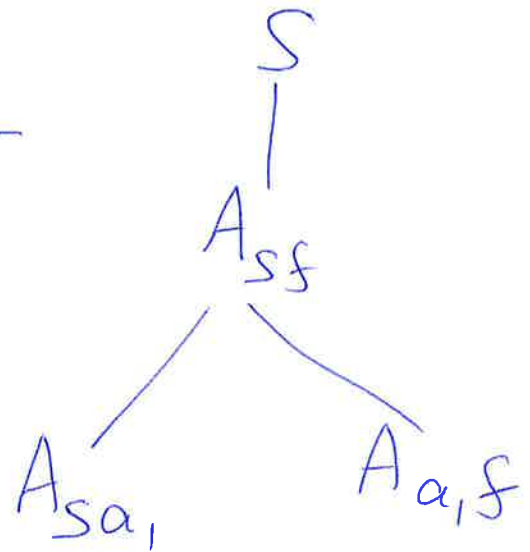


NW 11

P.1



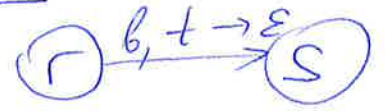
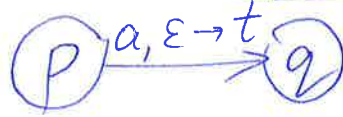
|                | u | d              |
|----------------|---|----------------|
| S              | B | U              |
| B              | U | a <sub>1</sub> |
| U              |   |                |
| a <sub>1</sub> | B | f              |
| B              |   |                |
| f              |   |                |



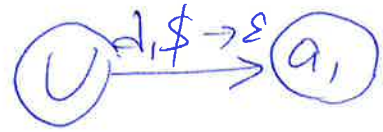
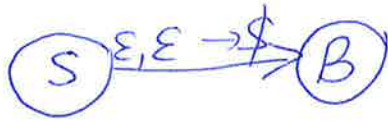
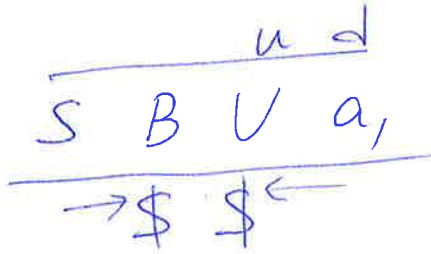
NW11  
P.2

$A_{sa,}$

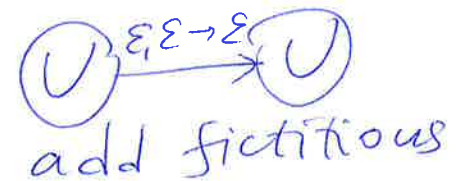
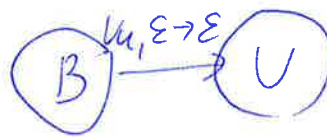
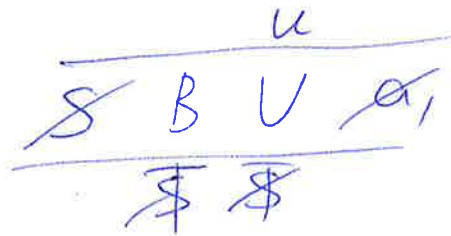
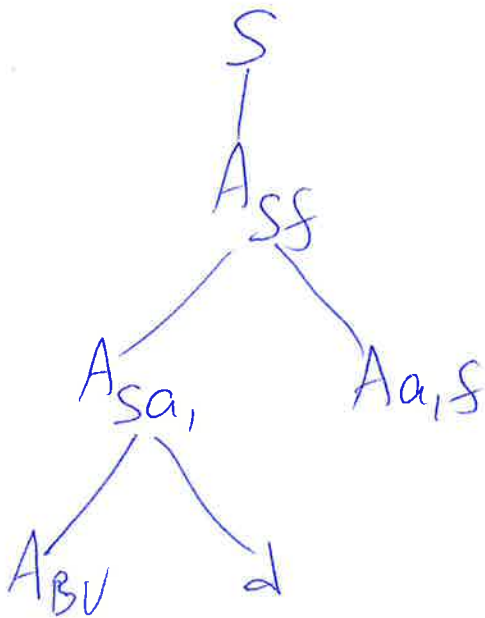
general:



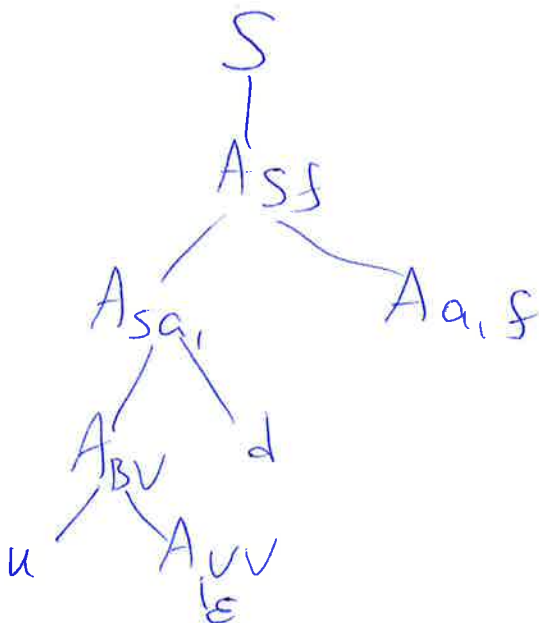
$$A_{ps} \rightarrow a A_{qr} b$$



$$A_{sa,} \rightarrow \varepsilon A_{BU} d = A_{BU} d$$



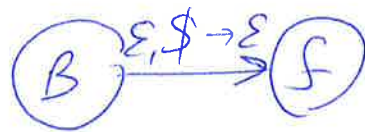
$$A_{BU} \rightarrow u A_{UU} \varepsilon = u A_{UU} \downarrow \varepsilon$$



HW 11  
p. 3

$A_{a,f}$ :

$$\frac{a, B \quad f}{\rightarrow \$ \leftarrow}$$



$$A_{a,f} \rightarrow \varepsilon A_{BB} \varepsilon = A_{BB} \downarrow_{\varepsilon}$$

Final tree:

