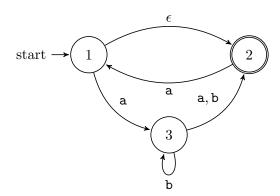
## Problem Set 1, Question 3 - Correction

Use the construction given in class to convert the following NFA to a DFA. Give a transition table and a transition diagram for the resulting DFA.



We start with the transition table for the given NFA

	a	b	$\epsilon$
1	{3}	Ø	{2}
2	{1}	Ø	Ø
3	{2}	$\{2, 3\}$	Ø

We then get a DFA with the following transition table (initial state 12, final states 12 and 23) (5)

	a	b
12	123	Ø
123	123	23
23	12	23
Ø	Ø	Ø

This is the transition diagram (5)

