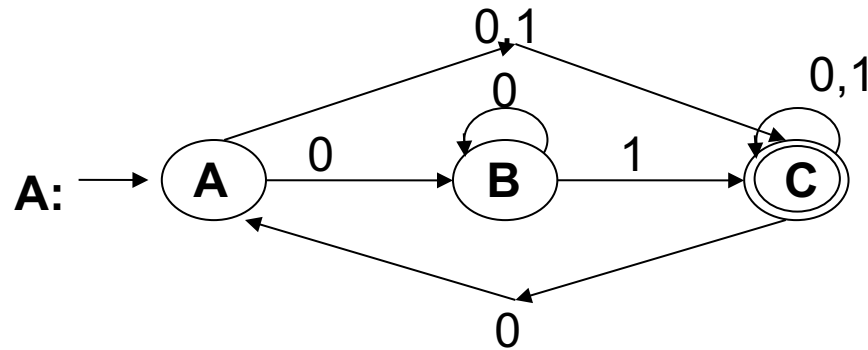


Assignment # 4.1/.2 Sample

1. Convert the following NFA to an equivalent DFA.



2. Convert the DFA you developed in #1 to a regular expression, first by using either the GNFA (or state ripping) or R_{ij}^k approach, and then by using regular equations. You must show all steps in each part of this solution.

Assignment # 4.3

3. a.) Minimize the number of states in the following DFA, showing the determination of incompatible states (table on right).

	a	b	c
>1	4	6	2
2	5	2	1
3	4	6	4
4	5	4	3
<u>5</u>	3	6	1
<u>6</u>	5	6	3

2					
3					
4					
<u>5</u>					
<u>6</u>					
	>1	2	3	4	<u>5</u>

b.) States are: