AUTOMATA ASSIGNMENT3

Murat Arda ÖNSÜ: 20160702020

q1: L={ $(x^i)(y^i)$: i+j is even} write the regular expression => $((x.x)^*).(x.y.(y.y)^* + (y.y)^*)$

$$<$$
Ci> \rightarrow c | c| ϵ
 $<$ A> \rightarrow a | a\$<\$ B> \$\rightarrow\$ b | b **\$<\$ C> \$\rightarrow\$ c | c
 \$<\$ S1> \$\rightarrow\$ ab | \$<\$ A> | \$<\$ B>**

$$\langle S2 \rangle \rightarrow b \langle S2 \rangle c | \langle B \rangle | \langle C \rangle$$