1 Test 1 Review

1.1 AFSA

Question 1:

- a) Design a AFSA for $x \in \{0,1\}^*$ x has a 0 fourth from the end and x represents in binary an integer evenly divisible by 3
- b) Construct the computation tree for m on 10101

${\bf Question} \ 2:$

- a) Design a AFSA for $x \in \{0,1\}^*$ x does not have a 0 fourth from the end and x represents in binary an integer that doesn't evenly divisible by 3
- b) Computation tree for m on 10101

- Question 3: a) Design AFSA $L=\{x\in\{0,1\}^*\}$, x represents in binary evenly divisible by 15. b) Design $L_2=L_1'$

 $\begin{array}{l} {\rm Question~4:}\\ {\rm Let}~\overline{M_1=\{x\in\{0,1\}^*\}~/~x~begins~or~ends~with~00}\\ {\rm Let}~M_2=\{x\in\{0,1\}^*\}~/~x~has~both~00~and~11~as~substring \end{array}$

- a) Design AFSA $M_3=M_1\cap M_2.$ b) Design AFSA $M_4=M_1\cup \bar{M}_2$ c) Design AFSA $M_5=\bar{M}_3$

Question 5: Convert the AFSA to DFSA

M	0	1
1	2\lambda3	1
2		
3		
4		

1.2 Another subtitle

More plain text.