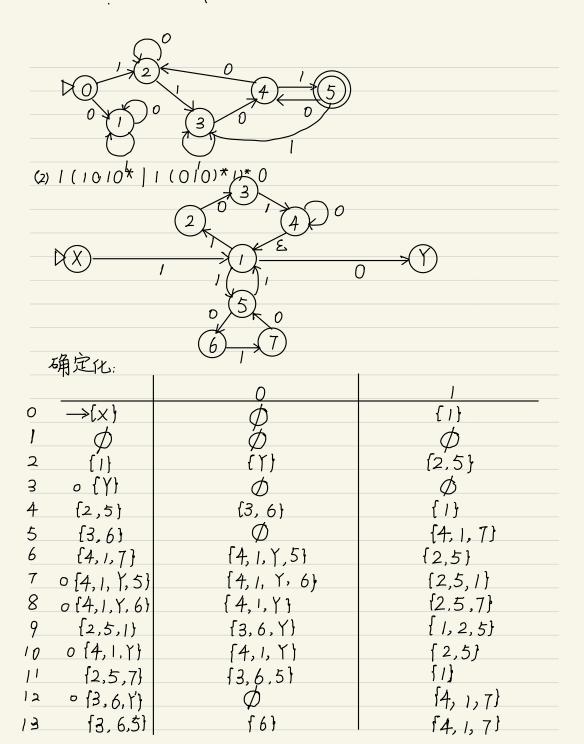
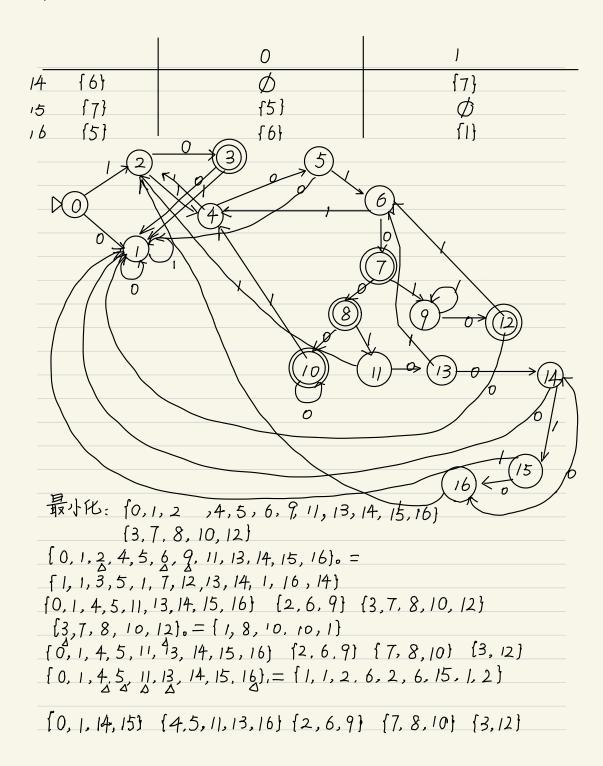
第三章作业人

7 构造下列正规式对应的 DFA (1) / (0|1)* 101 (2) | (1010* | 1 (010)*1)* 0 解:(1) 确定化: >{ Po} {p,} { p,} [P., P2] {p, p2} {p., p₃} {p, p2} {p,} $\{p_1, p_2, p_4\}$ {p.,p3} o{p,, p2, p2} $\{p_i, p_3\}$ (p,,p2) 最小化: [0,1,2,3,4] {5} $\{0,1,2,3,4\}_{o} = \{0,1,2,4\}$ $\{0,1,2,3,4\},=\{2,1,3,5\}$ [0,1,2,3] [4] [5] $\{0,1,2,3\},=\{2,1,3\}$ $\{0, 1, 2, 3\}_{0} = \{0, 1, 2, 4\}$ $\{0, 1, 2\} \{3\} \{4\} \{5\}$ $\{0,1,2\}_0 = \{1,2\}$ $\{0,1,2\}_1 = \{2,1,3\}$ $\{0,1\}$ $\{2\}$ $\{3\}$ $\{4\}$ $\{5\}$ $\{0,1\}, = \{1,0\}, \{0,1\}, = \{2,1\}$ [0] (1) (2) (3) (4) (5) 放对应的 DFA为





8. 给出下面正规表达式: (1)以 01 结尾的二进制数串 口能被5整除的二进制整数 解:(1)(0/1)*0/ (1/2|3/4|5/6|7|8/9) (0/1/2|3/4/5/6)7/8/9)* (0/5) (0/5)9.对下面情况给出 DFA及正规表达式 (1) [0.1]上的含有子串 010的所有串 解: 正规表达式 (0/1)* 010 (0/1)* $\rightarrow \{\chi\}$ {X, 1} fx } $\{X, I\}$ {x,/} $\{x, 2\}$ $\{X, 2\}$ $\{x\}$ $\{x, j, Y\}$ $\{X,2,Y\}$ o(X, I, Y) $\{X, I, Y\}$ o(x,2, Y) {x, Y} $\{x, L, Y\}$ o SX, YI [X,1,Y] $\{x,Y\}$

最小化 {0,1,2} {3,4,5} $\{0, 1, \frac{2}{4}\}_{0} = \{1, 1, 3\}$ $\{0, 1, 2\}_{1} = \{0, 2, 0\}$ [3,4,5],=[3,3,3] [3,4,5],=[4,5,5] {0,1} {2} {3,4,5} (0) (1) (2) (3,4,5) 化简后: