

6.  
(1).

	$x$	
	0	1
$S_0$	$S_0, 0$	$S_1, 0$
$S_1$	$S_4, 1$	$S_0, 1$
$S_2$	$S_2, 0$	$S_1, 0$
$S_3$	$S_4, 1$	$S_5, 1$
$S_4$	$S_2, 0$	$S_3, 1$
$S_5$	$S_4, 1$	$S_0, 1$

(2).

	$x$	
	0	1
000	000, 0	001, 0
001	100, 1	000, 1
010	010, 0	001, 0
011	100, 1	101, 1
100	010, 0	011, 1
101	100, 1	000, 1

	$Q_0 x$				
$Q_2^+$	00	01	11	10	
	00	0	0	0	1
$Q_2 Q_1$	01	0	0	1	1
	11	d	d	d	d
	10	0	0	0	1

$Q_1^+$	00	01	11	10	
	00	0	0	0	0
	01	1	0	0	0
	11	d	d	d	d
	10	1	1	0	0

$Q_0^+$	00	01	11	10	
	00	0	1	0	0
	01	0	1	1	0
	11	d	d	d	d
	10	0	1	0	0

$Q_0$	00	01	11	10	
	00	0	0	1	1
	01	0	0	1	1
	11	d	d	d	d
	10	0	1	1	1

$$\begin{cases} y = Q_0 + Q_2 x \\ Q_2^+ = Q_0 \bar{x} + Q_1 Q_0 \\ Q_1^+ = Q_1 Q_0 \bar{x} + Q_2 Q_0 \\ Q_0^+ = Q_0 x + Q_1 x \end{cases}$$

(3).

$$\begin{cases} \text{CLO} \dots 3 \text{ } \sqsupset (2 \lambda \text{ } 3 \text{ } \sqsupset) \\ \text{CL1} \dots 3 \text{ } \sqsupset (2 \lambda \text{ } 2 \text{ } \sqsupset) \\ \text{CL2} \dots 3 \text{ } \sqsupset (2 \lambda \text{ } 3 \text{ } \sqsupset) \\ \text{CLY} \dots 2 \text{ } \sqsupset (2 \lambda \text{ } 2 \text{ } \sqsupset) \end{cases} \quad 3 \lambda \text{ } 1 \text{ } \sqsupset$$