

1805662

 $z = 1$ 00 \rightarrow 10 \rightarrow 00 \rightarrow 10 \rightarrow 00 \rightarrow 01 ;

Primitive flow table:

$x_1 x_2$	z			
	00	01	11	10
1	①/0	2/0	—	3/0
2	1/0	②/0	8/0	—
3	4/0	—	8/0	③/0
4	④/0	2/0	—	5/0
5	6/0	—	8/0	⑤/0
6	⑥/0	7/-	—	5/0
7	1/-	⑦/1	8/0	—
8	—	7/-	⑧/0	5/0

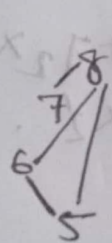
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2	✓						
3	14	14					
4	35	14	35				
5	16, 35	16	46	46			
6	27	16	46	27	✓		
7	X	X	14	X	16	16	
8	27	27	35	27	✓	✓	✓
	1	2	3	4	5	6	7

merger diagram,



Closed covering:

(12) (3) (4) (568) (78)
 $1' \quad 2' \quad 3' \quad 4' \quad 5'$

Reduced flow table:

$x_1 x_2$	00	01	11	10
(12) $1'$	$1'/0$	$1'/0$	$5'/0$	$2'/0$
(3) $2'$	$3'/0$	—	$4', 5'/0$	(2')/0
(4) $3'$	(3)/0	$2'1/0$	—	$4'/0$
(568) $4'$	$4'/0$	$5'/1$	$4'/0$	(4')/0
(78) $5'$	$1'/-$	(5')/1	$5'/10$	$4'/0$

Sub: _____

Day _____

Time: _____

Date: / /

Transition table

$y_2 y_1 y_0 \backslash x_1 x_2$	00	01	11	10
000	000/0	000/0	011/0	001/0
001	010/0	—	011/0	001/0
010	010/0	000/0	—	011/0
011	011/0	100/1	011/0	011/0
100	000/—	100/1	100/0	011/0

$$D_2 = y_0 x_1' x_2 + y_2 x_2$$

$$D_1 = y_2' x_1 x_2 + y_1' y_0 x_1' + y_1 x_2' + y_2 x_1 \bar{x}_2$$

$$D_0 = y_2' x_1 + x_1 + x_1 x_2' + y_1 y_0 x_2'$$

00

$$z = y_0' x_1' x_2 + y_2 x_1'$$