

DD Pre-Lab 3

1)

for simplicity

2)

A	B	C		
x_2	x_1	x_0	y_1	y_2
0	0	0	0	0
0	0	1	1	0
0	1	0	0	0
0	1	1	1	1
1	0	0	0	0
1	0	1	1	1
1	1	0	0	1
1	1	1	1	1

y_1)

A	BC	00	01	11	10
0			1	1	
1			1	1	

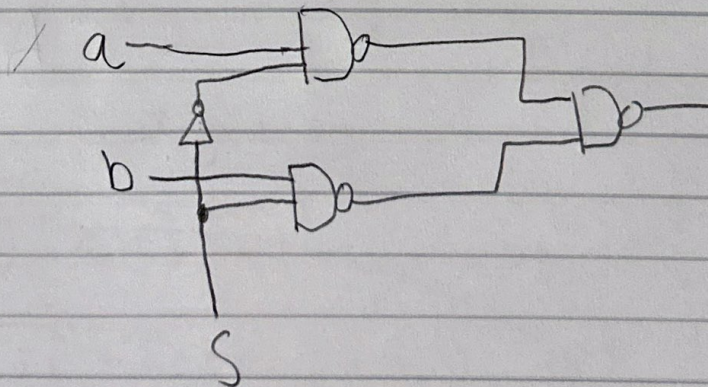
= C or x_0

y_2)

A	BC	00	01	11	10
0				1	
1			1	1	1

= $\bar{C}A + (B + BA)$ or $x_0x_2 + x_0x_1 + x_1x_2$

2)



3)

x_3	x_2	x_1	x_0	F	
0	0	0	0	0	
0	0	0	1	1	x_0
0	0	1	0	1	
0	0	1	1	1	1
0	1	0	0	0	
0	1	0	1	0	0
0	1	1	0	1	$\overline{x_0}$
0	1	1	1	0	$\overline{x_0}$
1	0	0	0	1	
1	0	0	1	1	1
1	0	1	0	0	
1	0	1	1	0	0
1	1	0	0	1	$\overline{x_0}$
1	1	0	1	0	
1	1	1	0	0	
1	1	1	1	1	x_0

