

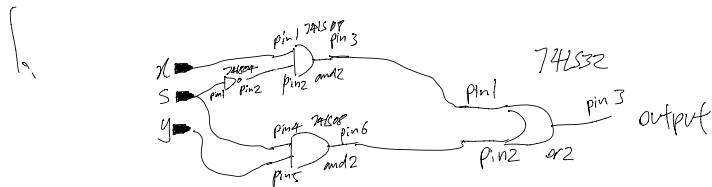
$$f = xS' + yS$$

$$= x + y$$

2, Truth table

Part I

X	y	S	out
0	0	0	0
0	0	1	0
0	1	0	0
1	0	0	1
1	0	1	0
1	1	0	1
0	1	1	1
1	1	1	1



part II

$$f = (a+b)' + cb'$$

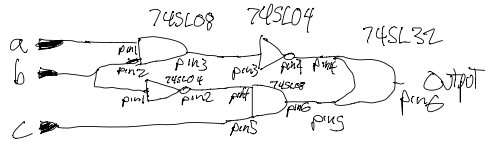
$$= \overline{a+b} + c\overline{b}$$

$$= \overline{b} \cdot (\overline{a} + c)$$

2. Truth table

a	b	c	out
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

1.



3.

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