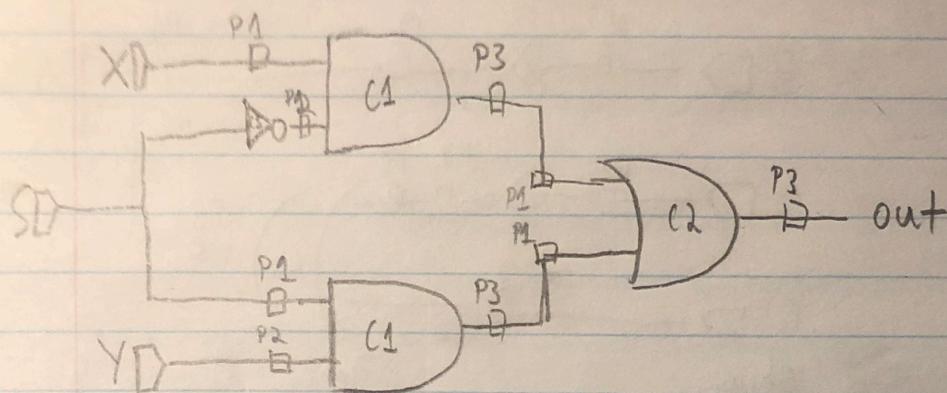


Pre lab 1

Patrick Ren

$$R1: f = xs' + ys$$



Truth table ($f = xs' + ys$)

S	X	Y	f
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

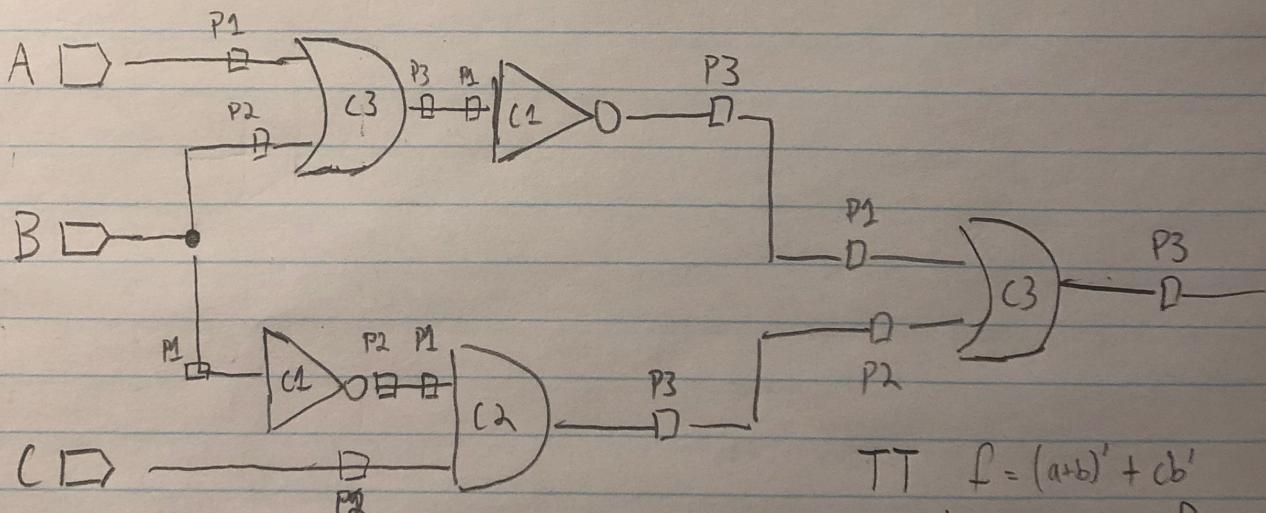
Chips used

- C1 - 74LS08
- C2 - 74LS32
- C3 - 74LS04

Connected All chips:

- P7 : GND
- P14 : VCC

$$\text{Part 2: } f = (a+b)' + cb' = a'b' + cb' = b' \cdot (a' + c)$$



$$\text{TT } f = (a+b)' + cb'$$

a	b	c	f
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

Chips:

- C1 - 74LS04 (NOT)
- C2 - 74LS08 (AND)
- C3 - 74LS32 (OR)

Pins: All chips connected to:

P7 - GND

P14 - VCC

Hilary