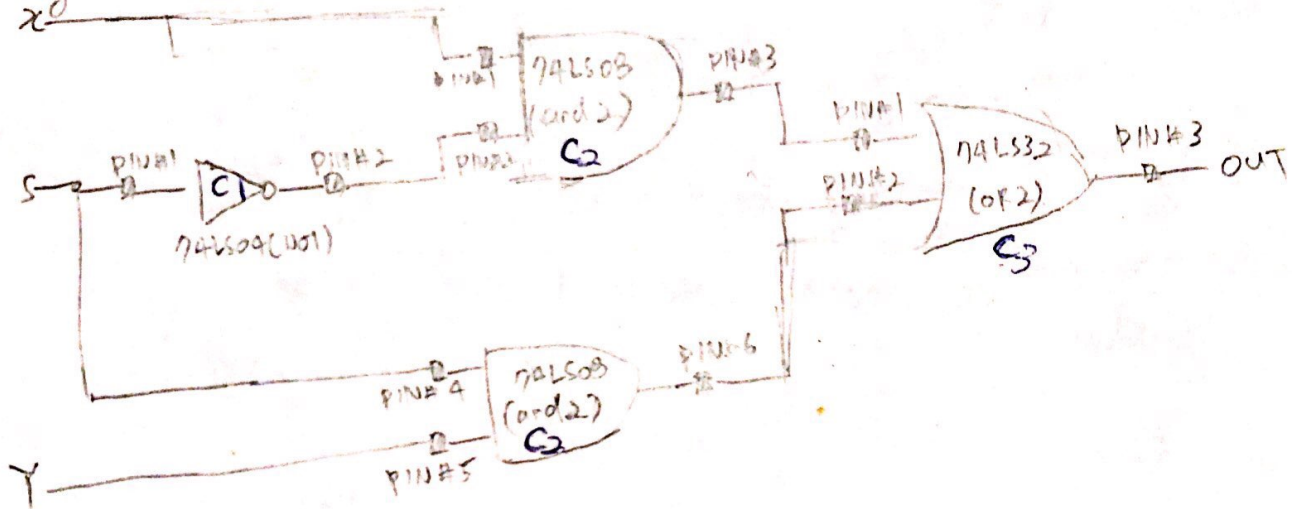


Part 1 Pre-lab.

$$f = x s' + y s$$

(1) Design.



(2) Truth Table

x	s	y	s'	$x s'$	xy	$x s' + y s$
0	0	0	1	0	0	0
0	0	1	1	0	0	0
0	1	0	0	0	0	0
0	1	1	0	0	1	1
1	0	0	1	1	0	1
1	0	1	1	1	0	1
1	1	0	0	0	0	0
1	1	1	0	0	1	1