

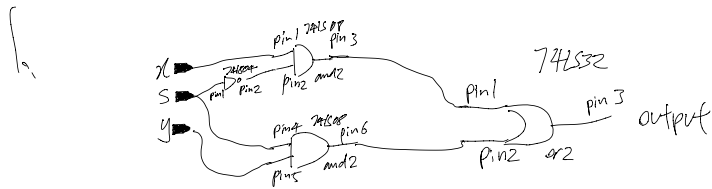
Part I.

$$f = x\bar{s} + ys$$

$$= x + y$$

2, Truth table

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

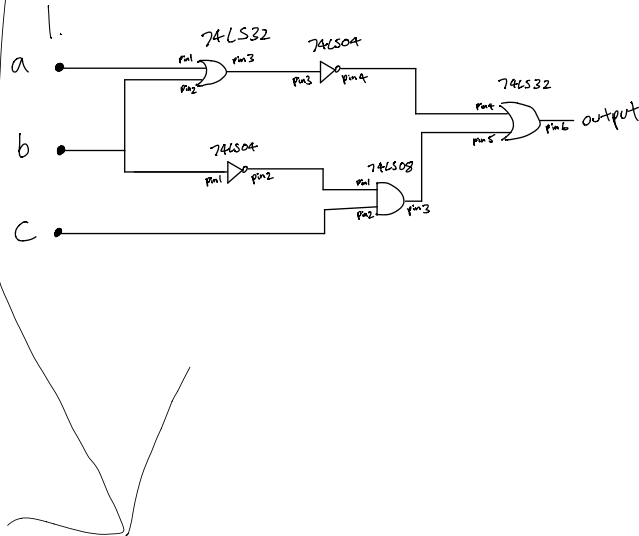


## Part II.

$$\begin{aligned}
 f &= (a+b)' + cb' \\
 &= \overline{a+b} + c\overline{b} \\
 &= \overline{b} \cdot (\overline{a} + c)
 \end{aligned}$$

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



3.

74S08

