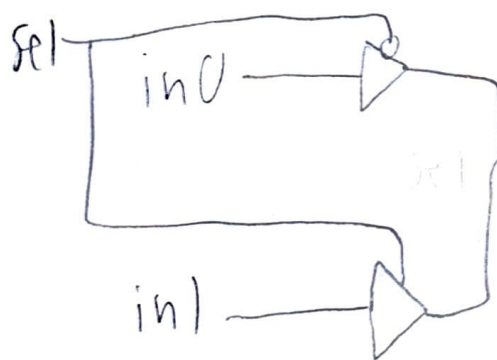


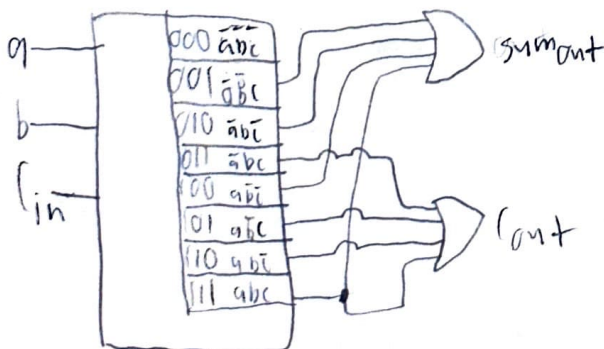
2.



when sel is 0, in0 is outputted
when sel is 1, in1 is outputted

sel	in0	in1	out
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

3.



1 = carry
a + b

4. a. 15 or 1111

c. 011011,0101

b. 00000
01111 \leftarrow 15
10001 \leftarrow -15
10000 \leftarrow -16

d. .10101010
 $\frac{1}{2} + \frac{1}{8} + \frac{1}{32} + \frac{1}{128} =$

.6640625 vs .6666

It is accurate up to the hundredths place

5.

a.

A	B	In	S	Out
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

b.

