

ICS Hw2

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2.40

1. 2
2. -17
3. $+\infty$
4. -3.125

2.48

1. x100
2. x6F
3. x75BCD15
4. xD4

3.6

A	B	C	D	Z
0	0	1	1	0
0	1	1	0	0
1	0	0	1	0
1	1	0	0	1

$Z = \overline{\bar{A} + \bar{B}} = A \cdot B$

3.20

One output line and 4 select line.

3.30

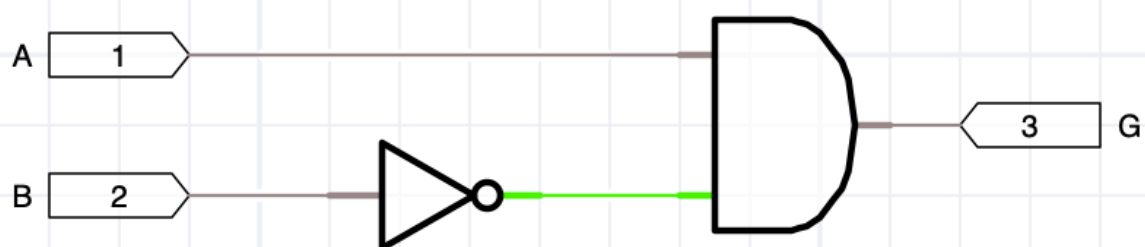
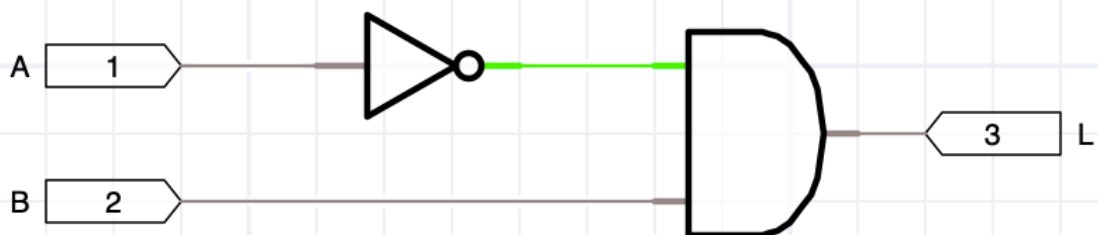
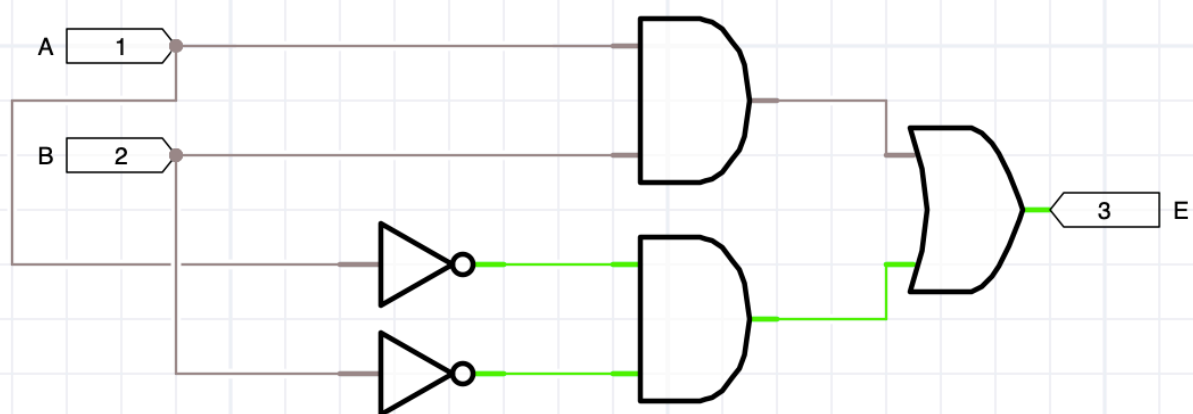
- 1. It's a select signal.
 $X=0, S=A+B$
 $X=1, S=A+C$
- 2. $C=NOT(B)$, Carry-in= X , others same as the Figure 3.42.

3.36

1.

A	B	G	E	L
0	0	0	1	0
0	1	0	0	1
1	0	1	0	0
1	1	0	1	0

2.



3.

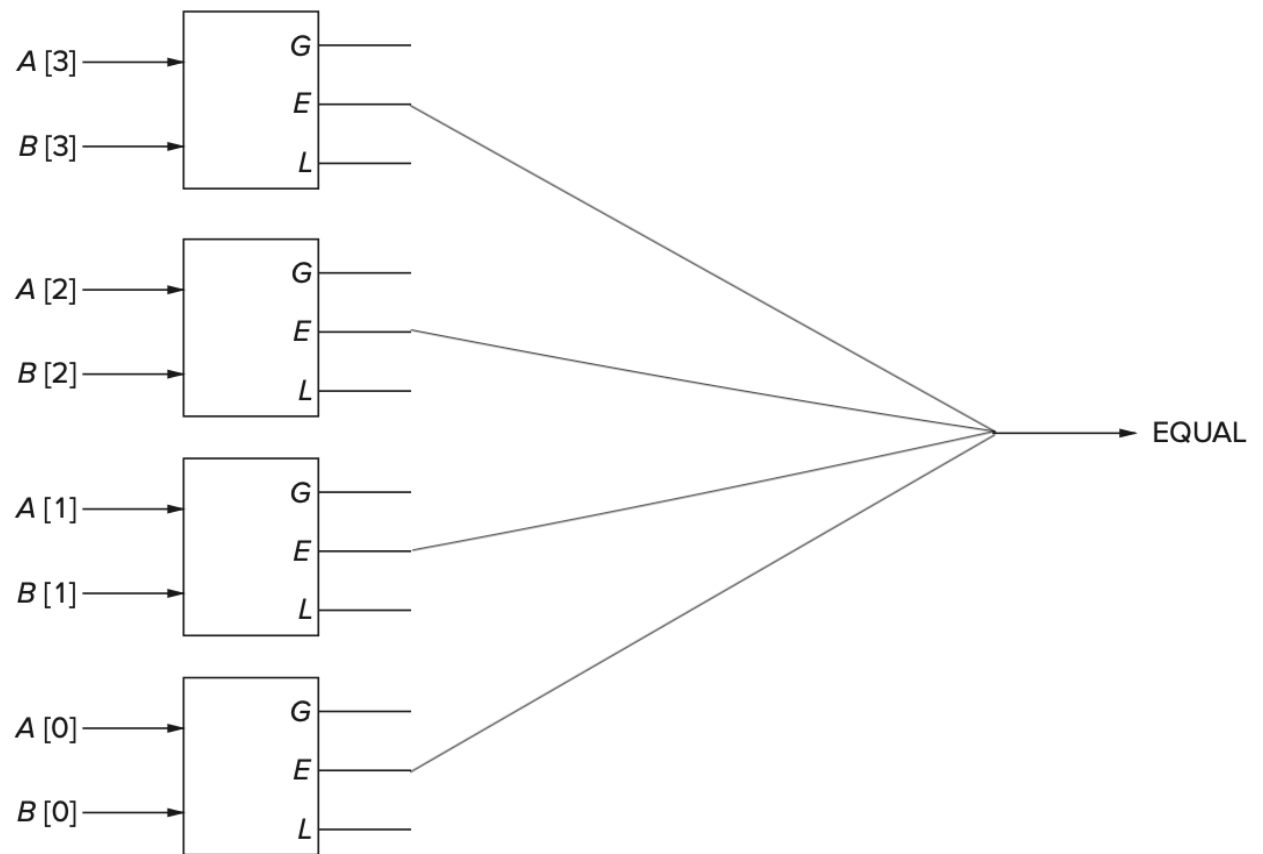


Figure 3.44 Diagram for Exercise 3.36.

3.40

1. 4
2. 3
3. 110

3.50

AND :



NOT :



OR :

