

# hw2

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2.40

- a. 2
- b. -17
- c. positive infinitely
- d. -3.125

2.48

- a. x100
- b. x6F
- c. x75BCD15
- d. 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

$Z = A.B$

3.20

It will have one output line, and four select lines.

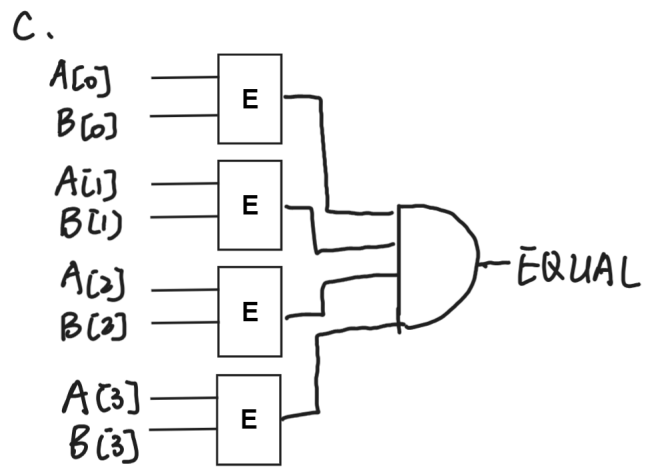
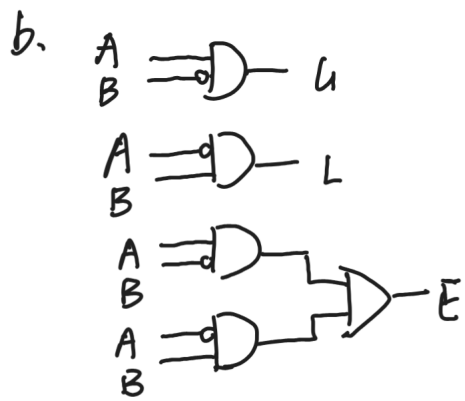
3.30

- a. X selects B or C, that is,  $X=0, S=A+B, X=1, S=A+C$
- b. The diagram is basically the same as Figure 3.42, except  $C=\text{NOT}(B)$  and Carry-in=X.

3.36

a.

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



3.40

a. 4 locations

b. 4 bits

c. 0001

3.50

