2.40

a. +1.0*2^1 = 2

b. -(1+1/16)*2^4 = -17

c. +inf

d. -(1+1/2+1/16)*2^1 = -3.125

2.43

a. Hello!

b. hELLO!

c. Computers!

d. LC-2

3.6

Α	В	С	D	Z
0	0	1	1	0
1	0	0	1	0
0	1	1	0	0
1	1	0	0	1

$$Z = A \times B$$

3.20

1 output line.

4 select lines.

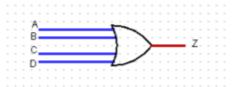
3.23

a.

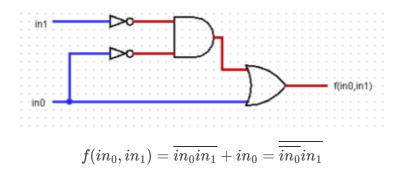
Α	В	С	D	Z
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

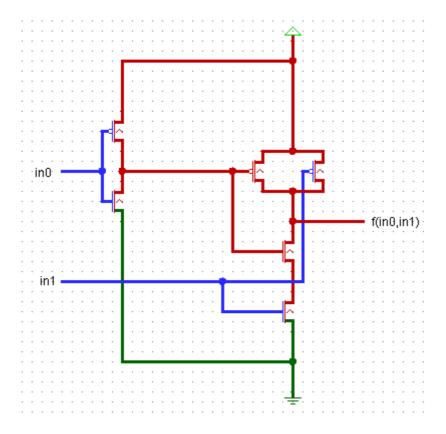
The truth table has 16 rows.

b.



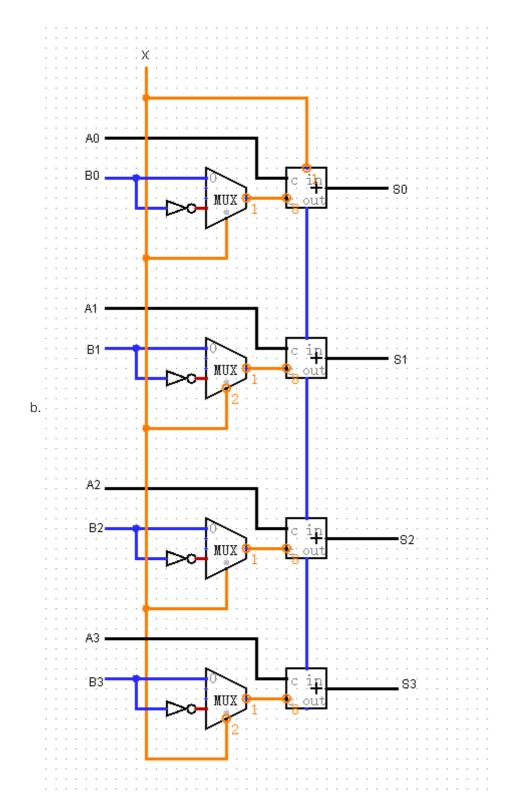
3.26





3.30

a. if X=0, S = A+B, if X=1, S=A+C.



if X = 0, S = A + B

if X = 1, S = A + NOT(B) + 1 = A - B

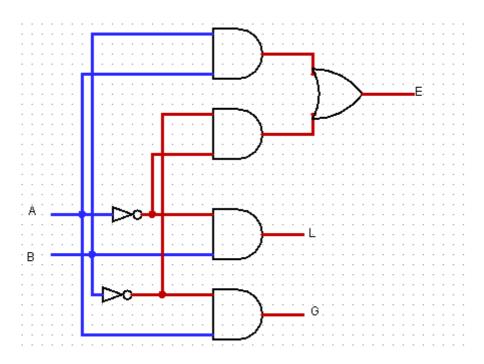
3.36

a.

Α	В	G	E	L
0	0	0	1	0
0	1	0	0	1
1	0	1	0	0
1	1	0	1	0

b.

$$G = A\overline{B}$$
 $E = \overline{AB} + AB$ $L = B\overline{A}$



c.

