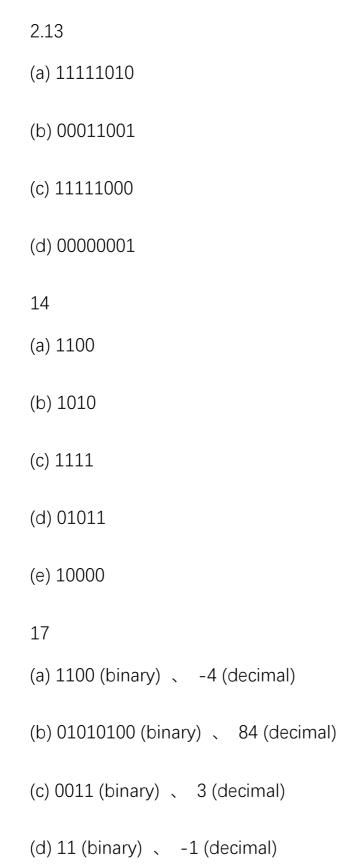
Homework of Chapter2,3



20000(decimal)+20000(decimal)

24

40000(decimal)+40000(decimal)

27

The problem is that two positive numbers' sum is a negative number.

37

[(n AND m AND (NOT s)) OR ((NOT n) AND (NOT m) AND s)] AND 1000

56

$$-1.101 \times 2^{(12-7)} = -52$$

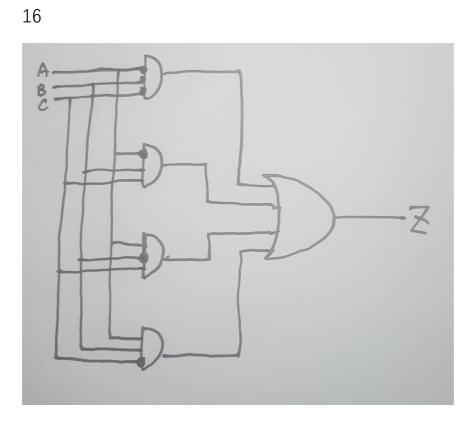
3.3

16 different two input logic functions.

5

А	В	С	OUT
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0

1	1	0	0
1	1	1	0



А	В	С	Z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0

1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

27

- (a) Z is always the same as A.
- (b) Z is still its previous value.
- (c) Yes, it is.

29

No. The original value cannot be recovered. Because a new value had been written into it.