## Homework 2

## Exercise 1

Y = a & b | c

а	b	С	Υ
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

## Exercise 2

a	b	С	Υ
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	1

Y = ~a & c | b

## Exercise 3

$$14_{10} = 1110_{2}$$
,  $1110 >> 2 = 1111$ 

$$3_{10} = 11_2$$
,  $1111 ^00011 = 1100$ ,  $1100_2 = 12_{10}$