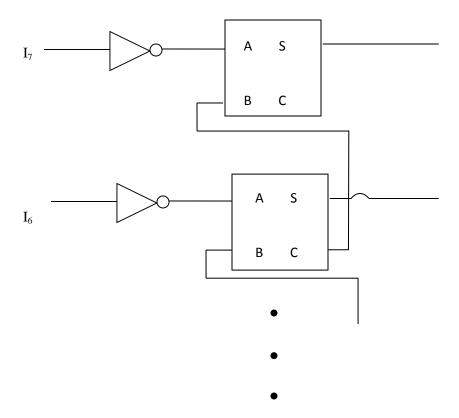
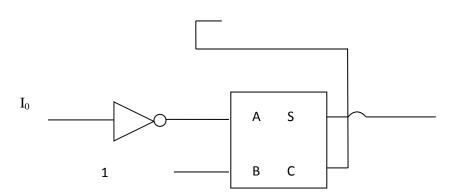
## Homework #2-1





## Homework 2-2

(a). Bollinger B-5

a. 
$$\underbrace{11011}_{B} \underbrace{0111}_{7} = 1B7_{16}$$

d. 
$$\underbrace{1011}_{B} \cdot \underbrace{0111}_{7} = B.7_{16}$$

(b). Bollinger B-7

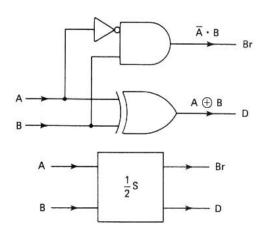
$$\textbf{-346}_{10} = 11111111010100110_2$$

$$2242_{10} = 0000100011000010_2$$

$$-3465_{10} = 1111001001110111_2$$

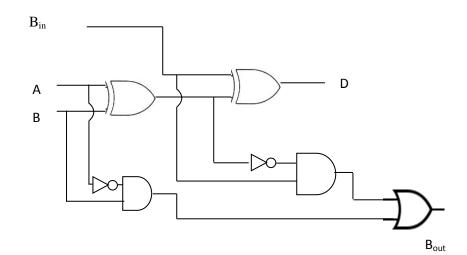
## a) half subtractor

A	В	D	В
0	0	0	0
0	1	1	1
1	0	1	0
1	1	0	0

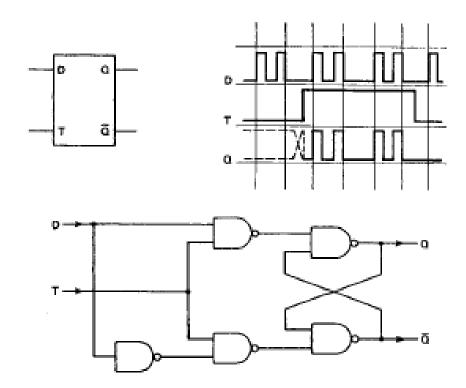


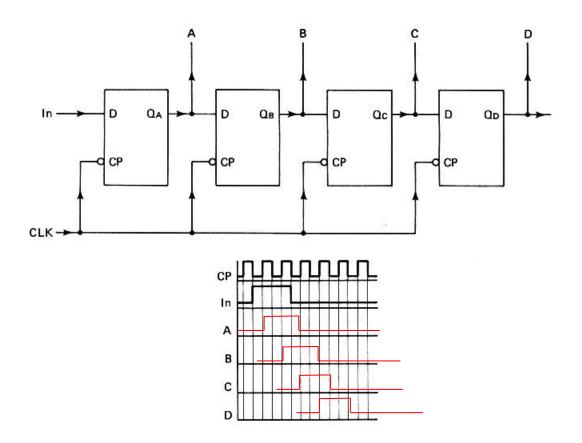
b) Full borrower

A	В	$B_{in}$	D	$B_{out}$
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	0	1
1	0	0	1	0
1	0	1	0	0
1	1	0	0	0
1	1	1	1	1



Type equation here.





(a) Complete the truth table for the following circuit

