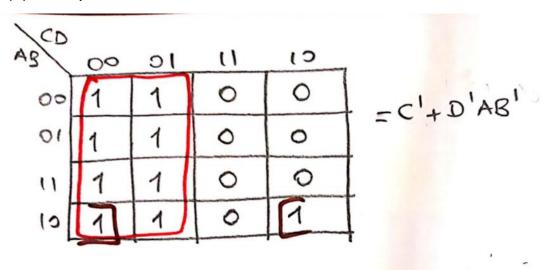
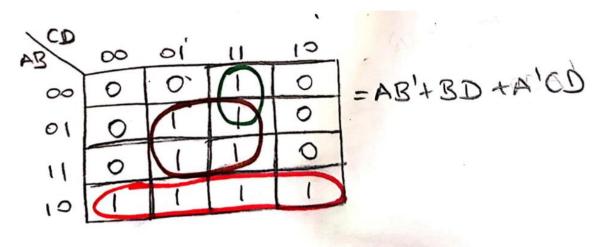
Barış Ayyıldız 1901042252

Question 1

1.(a) K-map of F₁

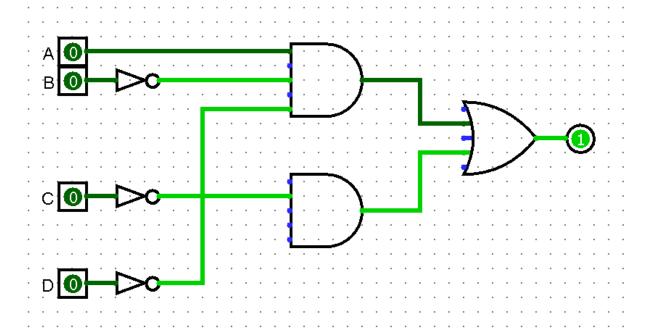


(b) K-map of F₂

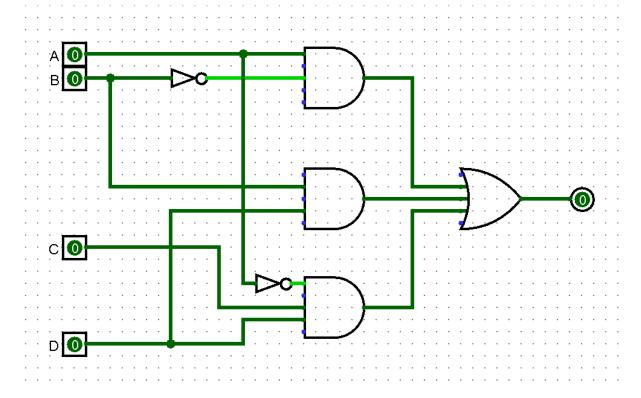


2.

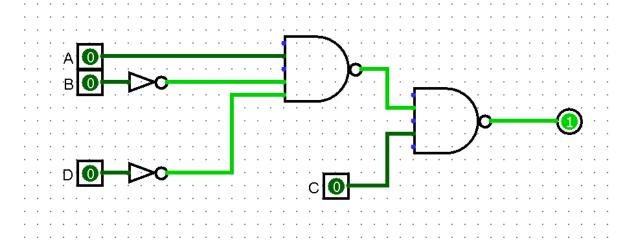
Logic circuit of F₁



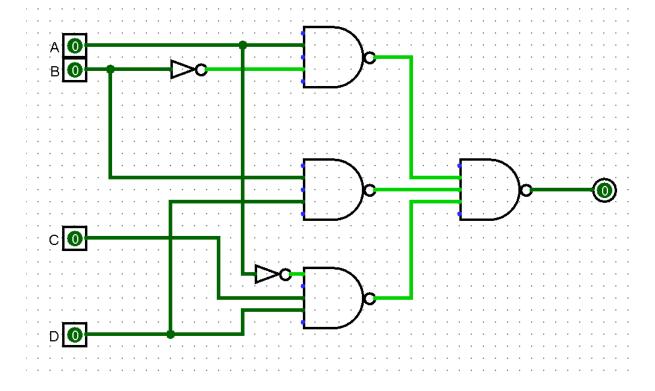
Logic circuit of F₂



Logic circuit of F₁ with NAND gates



Logic circuit of F2 with NAND gates



Question 2

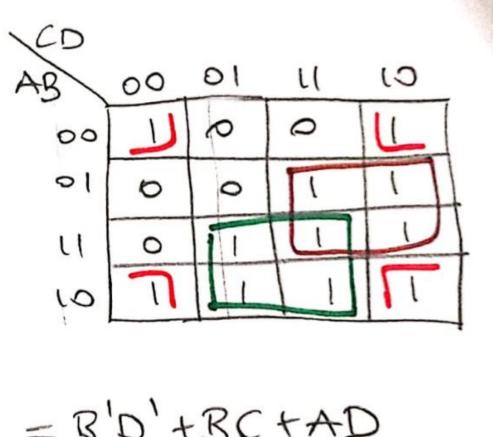
1.

F=AB' +AD+BC+CD'+A'B'C'D'

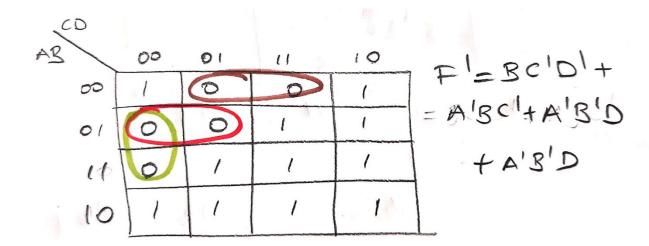
A	3 1	C	D	F
0	0	0	0	1
0	0		1	0
0	0	0	0	1
0	0 0 0	1	1	1000
0	1	0	0	0
0	1	0	0 1	0
0	1	1	0	1
0	1	11	1	1
1	0	0	0	11_
1	0	0	1	111
1	0	1	0	THE RESERVE THE PARTY OF THE PA
1	0	1	1	1
0000000011111111	1	0	0	0
1	1	0	1	1
1	1	1	0	11
1	1	1	1	11

2. K-maps for F and F'

F:

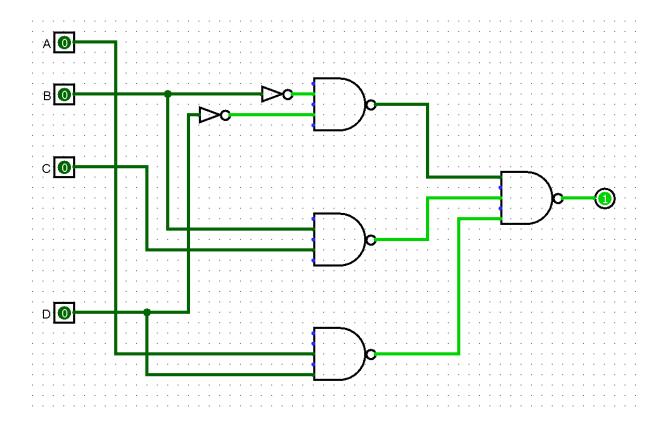


F':



Circuits of F and F' with NAND gates

F:



F':

