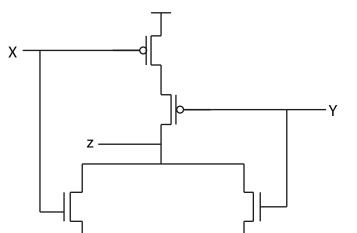
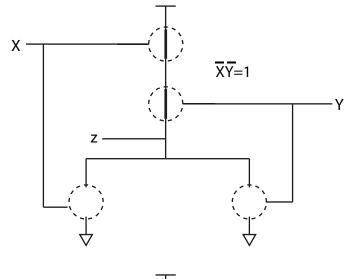
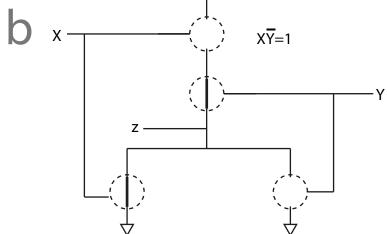
1

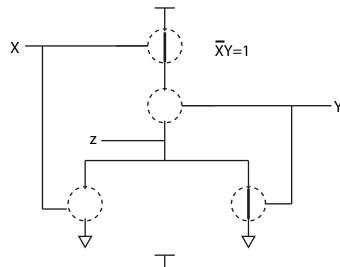


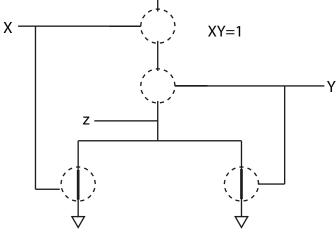
Jamal Kharrat

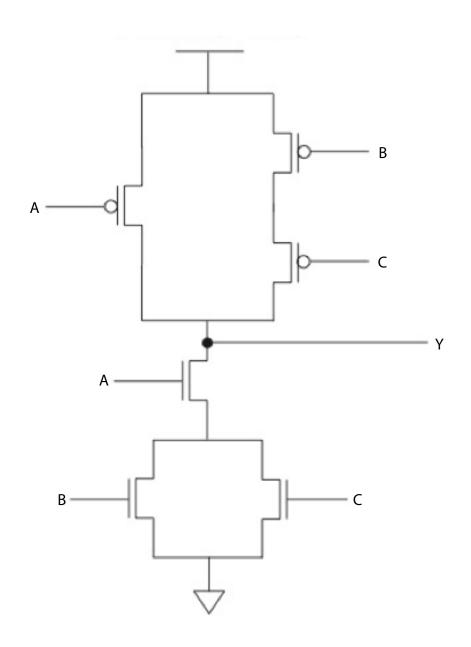












4 A=0 and B or C=0
$$\Rightarrow$$
 $\overline{A}(\overline{B}+\overline{C})$

$$5$$
 A=1 or B and C=1 => A + (BC)

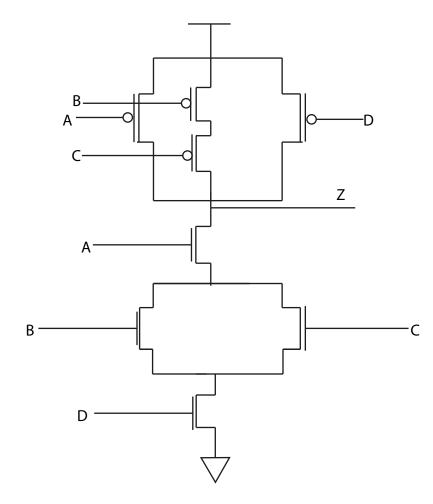
Yes we get a legal circuit

Α	В	С	To Z	To Ground	Output
0	0	1	Υ	N	1
0	0	1	Υ	N	1
0	1	0	Υ	N	1
0	1	1	Ν	Υ	0
1	0	0	Ν	Υ	0
1	0	1	N	Υ	0
1	1	0	N	Υ	0
1	1	1	N	Υ	0

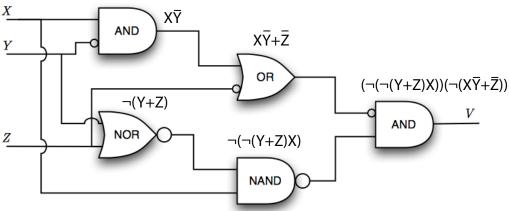
B- no we don't get a legal circuit

Α	В	С	To Z	To Ground	Output
0	0	1	Υ	N	1
0	0	1	Υ	N	1
0	1	0	Υ	N	1
0	1	1	N	N	Open
1	0	0	N	N	Open Open
1	0	1	N	Υ	0
1	1	0	N	Υ	0
1	1	1	N	Υ	0

7

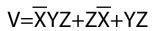


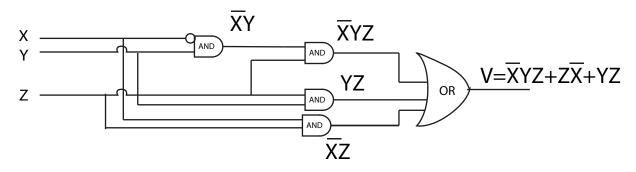
8



$$V=(\neg((\overline{Y}\overline{Z})X))(\neg(X\overline{Y}+\overline{Z}))$$

X	Υ	Z	V
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1





	XY			
Z	00	01	11	10
0	0	0	0	0
1	1	1	1	0

XZ+YZ

