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CSE 232 Final
Group 5

1- $A = x'y'z + x'yz' + xy'$

a) Minimize A (using karnaugh Map)

b) Connect this minimized function to a digital circuit.

c) Implement the function A by using 3x8 decoder.

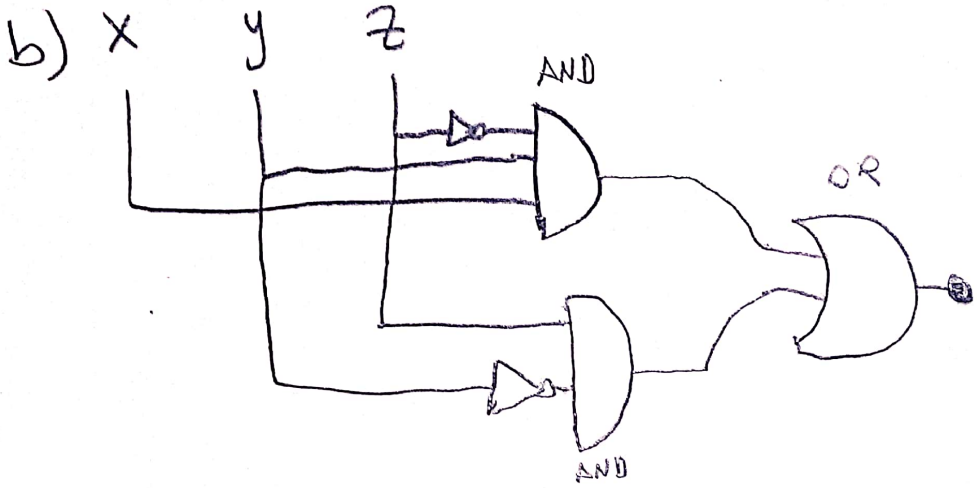
a)

x \ yz	00	01	11	10
0	0	1	0	1
1	1	1	0	0

(y: 11, 10 — z: 00, 01 — x: 0, 1)

$A = z.y' + x.y.z'$

b)



I hereby pledge on my honor that I will not give/receive any info from/to anybody. The work I done is solely my own.

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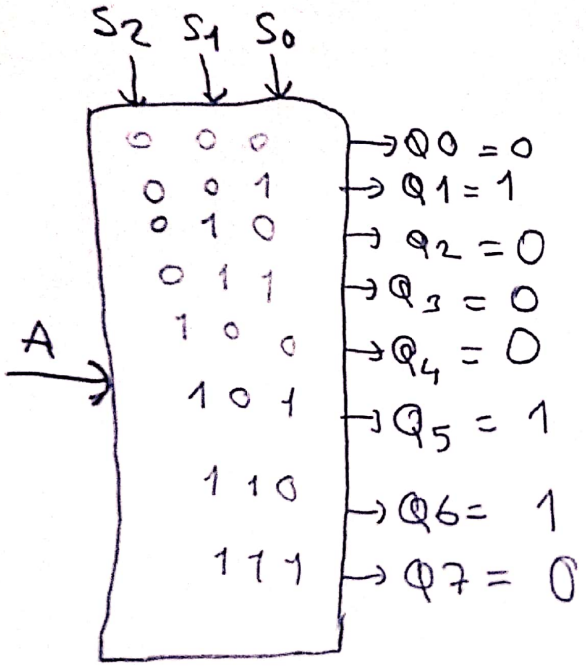
c)



3x8 decoder

X	Y	Z	F
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0