

## TUGAS 1

1.) Sederhanakan fungsi Boolean  $f(x, y, z) = x'yz + xy'z' + xyz + xyz'$

Jawab:

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

↳  $xy'z' + yz + xz$

2.) Sederhanakan fungsi boolean berdasarkan peta karnaugh!

CD \ AB	00	01	11	10
00	0	0	0	0
01	0	1	0	0
11	0	1	1	0
10	0	0	1	0

↳  $A'BD + BCD + ABC$

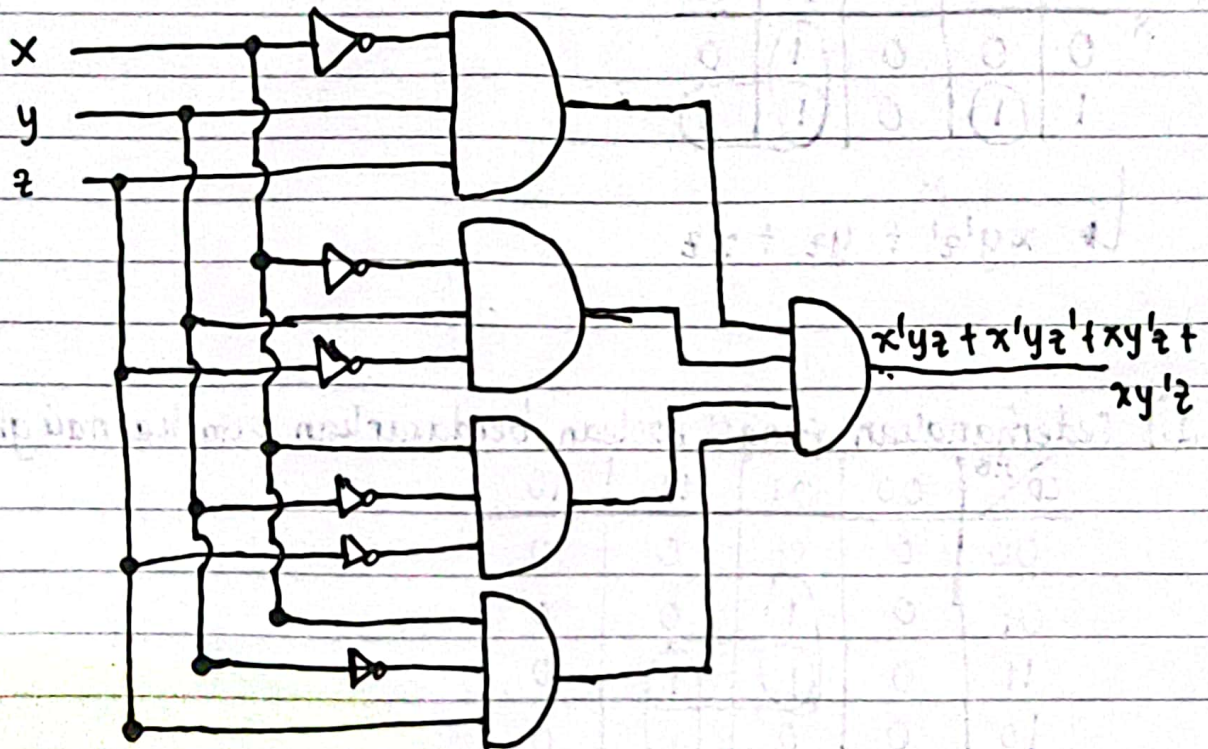
3.) Sederhanakan fungsi boolean  $f(x, y, z) = x'yz + x'y'z' + xy'z' + xy'z$ . Gambarkan rangkaian logika sebelum disederhanakan dan sesudah disederhanakan!

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



$$b. f(x, y, z) = x'yz + x'yz' + xy'z' + xy'z \\ = x'y' + x'y$$

Rangkaian logika sebelum disederhanakan.



Rangkaian logika setelah disederhanakan.

