1	2	3	grade
			0

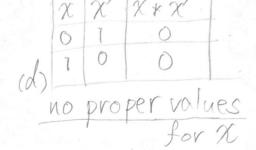
Quiz 12. Student name YUTA Vemoto Student ID 5/240234

4	Find the values	: 6	of the	Roolean	variable x	that	satisfy	the	following	equations.
1	Hind the volues	it anv	or the	DOOLGAIL	variable A	CITTERO	Becomery	CLAC		

- (a)
- (b)

(c)

- x * x' = 1(d)
- (C) 7 = 0



2. Find the complete sum-of-products expansions of the following Boolean functions

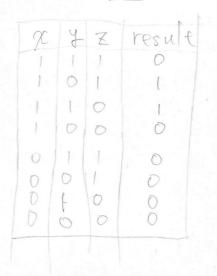
- (a) F(x, y, z) = x;
- (b) F(x, y, z) = x + y + z;
- (c) F(x, y, z) = xy'.

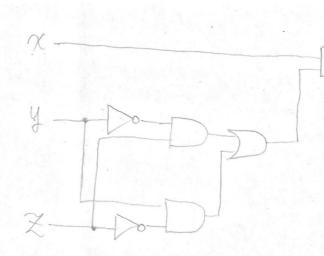
γ	14	7	F
1	1	1	-1
ĺ	1	0	1
1	0	1	1
İ	0	0	
0	1	1	0
0	1	D	0
0	0	1	0

)				, (Ł)				1
7	14	2	F		X	y	7	7-	
1	1	1			1	1	1	1	
1	1	0	1		1	1	0	1	
1	0	1	-		1	0	[1	
1	0	0	-	- 18	1	0	0	1	
0	1	1	0		0	1	- [1	
0	1	0	0		0	1	0		
0	0	1	0		0	0	1		
Ò	0	0	0		0	0	0	1	
		1							1.

X	y	Z	F
1	1	/	0
1	1	0	0
1	0	1	- 1
1	0	0	1
0	1	1	0
0	1	0	0
0	0	1	10
0	0	0	0

3. Using the basic logic gates design a circuit that takes three inputs x, y, z and produces a value 1 if and only if the input for x is 1 (and) exactly one of the inputs for y and z is 1.





are the same of	_	-		_			
Y	11	4.	-	١.	11		1.
1	.(1	d:	Z.	1+	(7	. X)