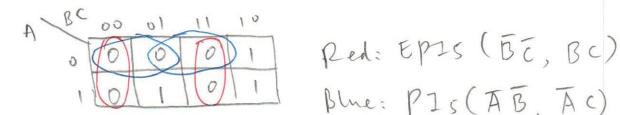
EE115B, Fall 2022, Homework 4 Solution



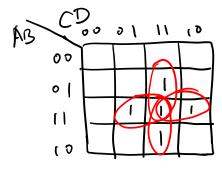
Blue: PIs(AB, Ac)

$$(OR, Y = \overline{Bc+Bc+Ac} = \overline{B+c} + \overline{B+c} + \overline{A+c})$$

Z. (a) Truth table

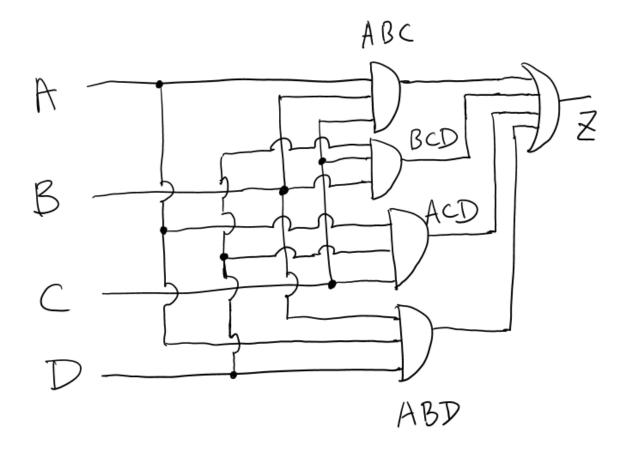
A	B	C	2	D		7	
0	O		6	6		0	
0	0		6	ſ		0	
6	O		l	0		0	
6	0	1	١	1		0	
7) (0	ن	7	0	
	0	ĺ	D	1		0	
	O	1	1	0		0	
	0	1	J	1			
	1	9	o	O		0	
	l	O	O	l		0	
	(0	l	O		0	
_	(0	l	١		١	
	1	l	0	G		0	
	Ì	(c	, (1	
	(((0		1	
_	١	١	١	1		1	

(b) AND-OR Logic

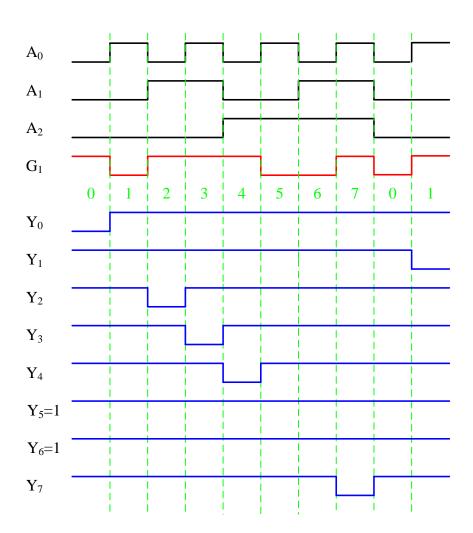


Z = ABC + ABD + ACD + BCD

(c) (-, wit diagram



3. Output waveforms.



4. Output waveform.

