

הצגת פתרון  
 למאמר המצגת את התוצאות של  
ה"ש"ר

לפי אי שאלתך

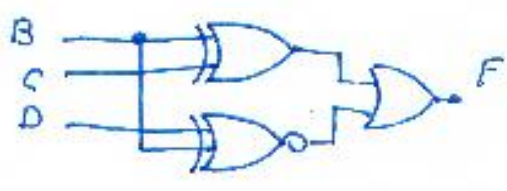
1 שאלה

$$F = \bar{A}C\bar{D} + \bar{B}C + AC\bar{D} + C + \bar{D}$$

$$F = C\bar{D}(\bar{A}+A) + BC + \bar{B}\bar{C} + \bar{C}D = C(\bar{D}+B) + \bar{C}(\bar{B}+D)$$

$$= C\bar{D} + CB + \bar{C}\bar{B} + \bar{C}D = C \oplus D + \bar{B} \oplus C$$

.k  
 .a



.c

2 שאלה

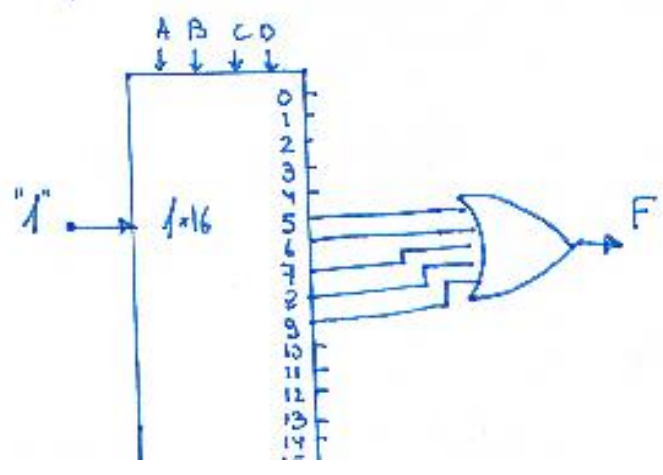
$$F = \Sigma(5,6,7,8,9)$$

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

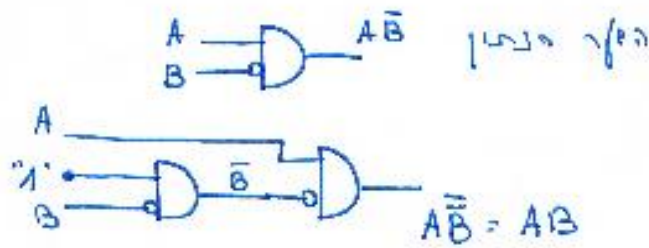
.k

$$F = \bar{A}BD + \bar{A}BC + A\bar{B}\bar{C}$$

.a



עבור פתרון .c



3 nke  
.lc

$F(AB) = AB$  en. d

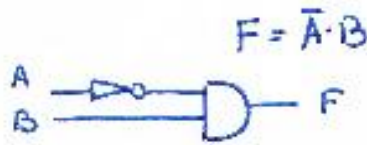
$$\begin{aligned}
 F &= (A+B) [\overline{\bar{A}(\bar{B} \cdot \bar{C})}] + \bar{A}\bar{B} + \bar{A}\bar{C} = (A+B)(A + \overline{\bar{B} + \bar{C}}) + \bar{A}\bar{B} + \bar{A}\bar{C} \\
 &= (A+B)(A+BC) + \bar{A}\bar{B} + \bar{A}\bar{C} = \underbrace{A+ABC+AB+BC}_{A} + \bar{A}\bar{B} + \bar{A}\bar{C} \\
 &= A + BC + \bar{A}\bar{B} + \bar{A}\bar{C} = A + BC + \bar{B} + \bar{C} = A + C + \underbrace{\bar{B} + \bar{C}}_1 = 1
 \end{aligned}$$

3 nke

A	B	F
0	0	0
1	0	1
2	1	0
3	1	0

n. k. 5 nke

4 nke  
.lc



2

3 nke

A	B	C	F <sub>2</sub>
0	0	0	1
1	0	0	0
2	0	1	1
3	0	1	1
4	1	0	1
5	1	0	0
6	1	1	0
7	1	1	0

$F_2$  n. k. 5 nke  
 $F_2 = \Sigma(0, 2, 3, 4, 6)$

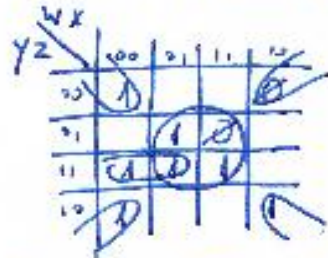
AB	00	01	11	10
0	1	0	1	0
1	0	1	0	1

$F_2 = \bar{C} + \bar{A}B$



$$F = \Sigma (0, 2, 3, 5, 7, 10, 15) + \Sigma \phi (8, 13)$$

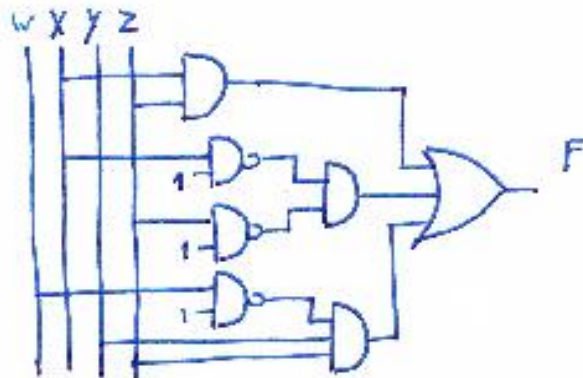
5 skc



.lc

$$F = XZ + \bar{X}\bar{Z} + \bar{W}YZ$$

→



.t

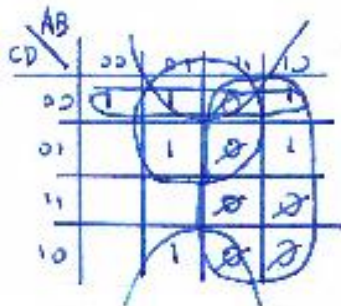
noor	A	B	C	D	e	b	c	d	e	f	g	noor
3	0	0	1	1	1	1	1	1	0	0	1	3

6 skc

.lc

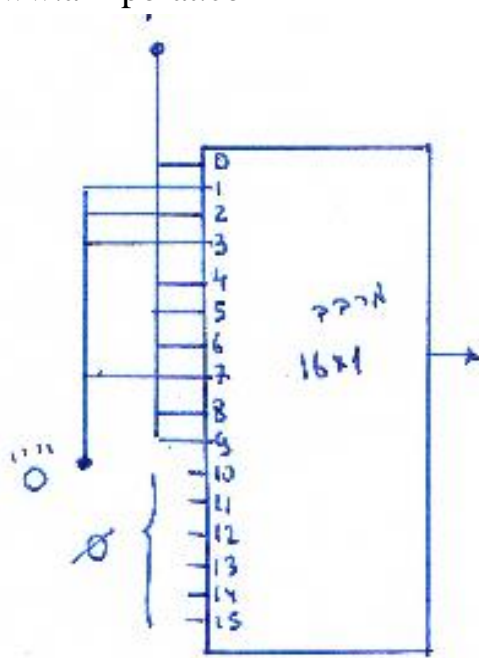
$$f = \Sigma (0, 4, 5, 6, 8, 9) + \Sigma \phi (10, 15)$$

→



$$f = A + \bar{C}\bar{D} + B\bar{C} + B\bar{D}$$

6 nke penis  
c



F<sub>1</sub>

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

F<sub>2</sub>

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

F<sub>3</sub>

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

7 nke

$$F_3 = \bar{F}_1 \cdot F_2$$

$$F_3 = \bar{A}\bar{C} + C\bar{D}$$

