

פתרון תרגול טבלאות אמת

1. $A \&\& B$!

תוצאה	$\neg A$	A	B
0	1	0	0
0	0	1	0
1	1	0	1
0	0	1	1

2. $(B \&\& \neg C) \parallel (A \&\& C)$

תוצאה	$A \&\& C$	$B \&\& \neg C$	$\neg C$	A	B	C
0	0	0	1	0	0	0
0	0	0	1	1	0	0
1	0	1	1	0	1	0
1	0	1	1	1	1	0
0	0	0	0	0	0	1
1	1	0	0	1	0	1
0	0	0	0	0	1	1
1	1	0	0	1	1	1

3. $(A \&\& \neg B) \parallel (\neg A \&\& B)$

תוצאה	$\neg A \&\& B$	$A \&\& \neg B$	$\neg B$	$\neg A$	A	B
0	0	0	1	1	0	0
1	0	1	1	0	1	0
1	1	0	0	1	0	1
0	0	0	0	0	1	1

4. $(B \&\& A) \parallel ((C \&\& B) \parallel (A \&\& \neg C))$

תוצאה	$B \&\& A$	$(C \&\& B) \parallel (A \&\& \neg C)$	$A \&\& \neg C$	$C \&\& B$	$\neg C$	A	B	C
0	0	0	0	0	1	0	0	0
1	0	1	1	0	1	1	0	0
0	0	0	0	0	1	0	1	0
1	1	1	1	0	1	1	1	0
0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	1	0	1
1	0	1	0	1	0	0	1	1
1	1	1	0	1	0	1	1	1

5. $(!(A \parallel B) \&\& !(C \parallel D))$

תוצאה	$!(C \parallel D)$	$C \parallel D$	$!(A \parallel B)$	$A \parallel B$	A	B	C	D
1	1	0	1	0	0	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	1	0	0
0	1	0	0	1	1	1	0	0
0	0	1	1	0	0	0	1	0
0	0	1	0	1	1	0	1	0
0	0	1	0	1	0	1	1	0
0	0	1	0	1	1	1	1	0
0	0	1	1	0	0	0	0	1
0	0	1	0	1	1	0	0	1
0	0	1	0	1	0	1	0	1
0	0	1	0	1	1	1	0	1
0	0	1	1	0	0	0	1	1
0	0	1	0	1	1	0	1	1
0	0	1	0	1	0	1	1	1
0	0	1	0	1	1	1	1	1