1) 12345878 | 16
12345664 | 771604 | 16
14 | 771600 | 48225 | 16
4 | 48224 | 3014 | 16
1 | 3008 | 188 | 16
6 | 176 | 11
12

Odg: BC614E

2) 1000000 | 16
1000000 | 62500 | 16
0 | 62496 | 3906 | 16
4 | 3904 | 244 | 16
2 | 240 | 15
4

Odg: F4240

2) $1000000_{16} = (1 \cdot 16^6) + (0 \cdot 16^5) + (0 \cdot 16^4) + (0 \cdot 16^3) +$
$+ (0 \cdot 16^2) + (0 \cdot 16^1) + (0 \cdot 16^0) = 16777216$

$12345678_{16} = (1 \cdot 16^7) + (2 \cdot 16^6) + (3 \cdot 16^5) +$
$+ (4 \cdot 16^4) + (5 \cdot 16^3) + (6 \cdot 16^2) + (7 \cdot 16^1) +$
$+ (8 \cdot 16^0) = 305419896$

A B

3) "Сгущенного молока и меда

C

и можно бу хлеба"

A & B & !C

4) A → B = !A || B

A	B	A → B
0	0	1
0	1	1
1	0	0
1	1	1

=

A	B	!A	!A || B
0	0	1	1
0	1	1	1
1	0	0	0
1	1	0	1

A ↔ B = (A && B) || (!A && !B)

A	B	A && B
0	0	0
0	1	0
1	0	0
1	1	1

!A	!B	!A && !B
1	1	1
1	0	0
0	1	0
0	0	0

A && B	!A && !B	(A && B) || (!A && !B)		A <-> B
0	1	1		1
0	0	0	=	0
0	0	0		0
1	0	1		1

5) Найти эквивалент $\oplus$

$A \oplus B = (!A \,\&\&\, B) \,||\, (A \,\&\&\, !B)$

A	B	!A && B	A && !B	A ⊕ B
0	0	0	0	0
0	1	1	0	1
1	0	0	1	1
1	1	0	0	0

- XOR

6) ~~(B→A)·(A+B)·(A→C)~~

$X = (B \to A) \cdot (A + B) \cdot (A \to C) =$

$= (!B + A) \cdot (!A \cdot !B) \cdot (!A + C) =$

$= (!B \cdot !A + A \cdot !A) \cdot !B\,(!A + C) =$

$= !B \cdot !A \cdot (!A + C) = \underline{!B \cdot !A}$