1) 12345678 (10) ==> 12345678%16 = 14 (E), 771604%16=4 (4), 48225%16=1 (1), 3014%16=6 (6), 188%16=12 (C), 11%16=11 (B);

12345678 (10) ==> BC614E (16)

1000000 (10) ==> 1000000%16=0 (0), 62500%16=4 (4), 3906%16 = 2 (2),

244%16=4 (4), 15%16=15 (F);

1000000 (10) ==> F4240 (16)

2) 12345678 (16) => 1x16^7 + 2x16^6 + 3x16^5 + 4x16^4 + 5x16^3 +

+ 6x16^2 + 7x16^1 + 8x16^0 = 268 435 456 + 33 554 432 + 3 145 728 + 262 144 + 20480 + 1 536 + 112 + 8 = 305 419 896

12345678 (16) ==> 12345678 (10)

1000000 (16) => 1x16^6 + 0 + 0 + 0 + 0 + 0 + 0 = 16 777 216

1000000 (16) => 16777216 (10)

3)

- A - со сгущенным молоком,
- B - с медом,
- C - с хлебом,

X = A && B && !C

4) A --> B = !A||B,

Таблица истинности:

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

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

Таблица истинности:

A	B	!A	!B	(A && B)	(!A && !B)	(A && B) || (!A && !B)
0	0	1	1	0	1	1
0	1	1	0	0	0	0
1	0	0	1	0	0	0
1	1	0	0	1	0	1

5) Эквивалент XOR(A, B) ==> **(A && !B) + (!A && B)**

6) X = (B --> A) * !(A + B) * (A --> C) ==>

X = !A||B * !A * !B * !A||C = (!A||B) * !B * !A * (!A||C) =

(!A||B * !B) * (!A * !A||C) = (!A * !B + B * !B) * (!A * !A + !A * C) =

(!A * !B + 0) * (!A + !A * C) = (!A * !B) * (!A + !A) * (!A + C) =

(!A * !B) * !A * (!A + C) = (!A * !A) * !B * (!A + C) = !A * !B * (!A + C) =

!B * !A * (!A + C) = **!(A * B) * (!A + C)**