№1. $f(x_1, x_2, x_3) = (x_2 + x_3)^{x_1+1}$

$S^3(\textcircled{1}, S^3(\oplus, I_2^3, I_3^3), S^2(s, I_1^3))$

$\textcircled{1} R(S^2(s,0), S^3(\otimes, I_1^3, I_3^3))$

$\oplus R(I_1^1, S^2(s, I_3^3))$

$\otimes R(0, S^3(\oplus, I_3^3, I_1^3))$

№2. $f(x_1, x_2, x_3) = [x_2/2]$

$x_4 = [x_2/2]$

$x_4 \leq x_2/2 < x_4 + 1$

$2x_4 \leq x_2 < 2(x_4+1)$

$\mu_{x_4}((x_2+1) \leq 2(x_4+1)) = \mu_{x_4}((x_2+1) \div 2(x_4+1)) = 0).$

$N(S^3(\textcircled{0}, S^2(s, I_2^4), S^3(\otimes, S^2(s, S^2(s,0)), S^2(s, I_4^4))))$

ст. 1.

№3. $f(x,y) = x + 3y + 1$

0	1	2	3	4	5
x	y	0	0	0	0

x+3y

1) $J(1,3,7)$
2) $S(2)$
3) $S(2)$
4) $S(2)$
5) $S(3)$
6) $J(0,0,1)$
7) $J(0,4,11)$
8) $S(2)$
9) $S(4)$
10) $J(0p,7)$
11) $S(2)$
12) $T(4,0)$

1) $J(1,2,7)$
2) $S(0)$
3) $S(0)$
4) $S(0)$
5) $S(2)$
6) $J(0,0,1)$
7) $S(0)$

ч. 2

№4. $f(x,y) = sg(x+y)$

a_1 $q_0\lambda \to q_0\lambda R$

a_2 $q_0\# \to q_3\lambda R$

a_3 $q_0| \to q_1| R$

a_4 $q_1| \to q_2| R$

a_5 $q_1\# \to q_2| R$

a_6 $q_1\lambda \to q_2| R$

a_7 $q_2| \to q_2\lambda R$

a_8 $q_2\lambda \to q^*\lambda$

a_9 $q_2\# \to q_2\lambda R$

a_{10} $q_3\lambda \to q^*\lambda$

a_{11} $q^*| \to q_1| R$

$a_1 = 3C^4(0,0,0,0)+2 = 2$

$a_2 = 3C^4(0,2,3,0)+2 = 3C^3(3,3,0)+2 =$

$= 3C^2(24,0)+2 = 3\left(\frac{24\cdot 25}{2}+24\right)+2 =$

$= 3\cdot 324+2 = 974$

$Q = \{q_0, q_1, q_2, q_3, q^*\}$

$T = \{\lambda, |, \#\}$

$0 \quad 1 \quad 2$

$$C(x,y) = \left[\frac{(x+y)(x+y+1)}{2}\right] + x$$

$$g(M) = 2^{a_1} + 2^{a_1+a_2+1} + \ldots + 2^{a_1+a_2+\ldots+a_{11}+10} - 1$$

Ч.З