

Мисрел Д 0362 Вариант 2

3 128115

4 2996

6 5762314

8 $\frac{116}{171}$

№3

$$13 \cdot 14^4 - 13 \cdot 13^4 = 13(38416 - 28561) = 128115$$

$$\begin{array}{r} 196 \\ \times 196 \\ \hline 1176 \\ 1764 \\ 196 \\ \hline 38416 \end{array}$$

$$\begin{array}{r} 169 \\ \times 169 \\ \hline 1521 \\ 1014 \\ 169 \\ \hline 28561 \end{array}$$

$$\begin{array}{r} 38416 \\ - 28561 \\ \hline 9855 \\ \times 13 \\ \hline 29565 \\ 9855 \\ \hline 128115 \end{array}$$

Answer: 128115

N4

$$h=3$$

$$A = \{a, b, c\}$$

$$i(abbaacc(b))$$

$$a=0$$

$$b=1$$

$$c=2$$

$$011002221_3 = x_{10}$$

$$1 + 2 \cdot 3 + 2 \cdot 9 + 2 \cdot 27 + 3^6 + 3^7 = 1 + 6 + 18 +$$

$$+ 54 + 81 \cdot 9 + 81 \cdot 27 = 2995$$

$$729 \quad 2187$$

$$2995 + 1 = 2996$$

$$\underline{\text{Answer: } 2996}$$

$$\begin{array}{r} 2187 \\ + 729 \\ \hline 54 \\ + 18 \\ \hline 72 \\ + 1 \\ \hline 2995 \end{array}$$

N5

$$1 - \frac{11}{11+8} \cdot \frac{10}{10+8} = 1 - \frac{11}{19} \cdot \frac{5}{9} = \frac{171-55}{171} = \frac{116}{171}$$

$$\underline{\text{Answer: } \frac{116}{171}}$$

N6

(1; 2; 3; 4; 5; 6; 7)

$$3585 - 1 = 3584$$

$$i = 3585$$

$$\begin{array}{r}
 3584 \mid 2 \\
 \underline{2} \\
 45 \\
 \underline{14} \\
 18 \\
 \underline{18} \\
 0
 \end{array}
 \quad
 \begin{array}{r}
 1792 \mid 3 \\
 \underline{15} \\
 29 \\
 \underline{22} \\
 7 \\
 \underline{21} \\
 1
 \end{array}
 \quad
 \begin{array}{r}
 597 \mid 4 \\
 \underline{4} \\
 19 \\
 \underline{16} \\
 37 \\
 \underline{36} \\
 1
 \end{array}
 \quad
 \begin{array}{r}
 149 \mid 5 \\
 \underline{10} \\
 49 \\
 \underline{45} \\
 4 \\
 \underline{29} \\
 16 \\
 \underline{24} \\
 4 \\
 \underline{5}
 \end{array}$$

$$3584_{10} = (454110)!$$

4	7654321	5
5	764321	7
4	64321	6
1	4321	2
1	431	3
0	41	1
0	4	4

Answer: 5762314