Красюков А. 8 вар

Ответы:

1	C_{21}^{17}
2	C_{219}^{89}
3	14^4
4	62282
5	301
6	4617253
7	б) $C_{13}^4 - 5C_9^4$ а) N=9 или 11
8	$\frac{117}{253}$

1) $x < 2^{22}$

$100\ldots1$ (22)

~~C_{20}^{18}~~ C_{21}^{17}

2) $x_1 + x_2 + x_3 \ldots + x_{90} = 40 \quad x \geq -1$

$y_1 + y_2 \ldots + y_{90} = 220 \quad y = x_1 + 2$

Ombet: C_{219}^{89}

3) ~~14~~ $\cdot 14 \cdot$ ~~14~~ $\cdot 14 \cdot$ ~~14~~ $= 14^4 =$

4) $a = 0 \quad b = 1 \quad c = 2 \quad d = 3$

ddadbacb = 33031021

~~4~~ $1 + 2 \cdot 4 + 0 \cdot 4^2 + 1 \cdot 4^3 + 3 \cdot 4^4 + 0 \cdot 4^5 + 3 \cdot 4^6 +$

$+ 3 \cdot 4^7 = 1 + 8 + 0 + 64 + 768 + 0 + 12288 + 49152 =$

$= \underline{62281} + 1 = 62282$

A (63) + (567) = 308 1

5) (A) = 320

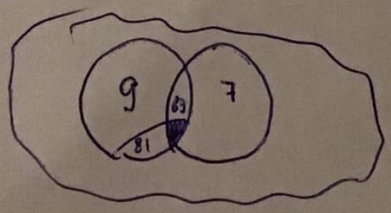
(9) = 145

(7) = 55

~~4~~ (81) = 43

(63) = 47

(567) = 28



Ombem: 308 1

1) $x < 7^{22}$

8) $P_1 = 33$
$P_2 = 3К$
$P_3 = К3$
$P_4 = КК$

$P_1 + P_2 + P_3 + P_4 = 1$

$P_2 + P_3 + P_4 = 1 - P_1$

$P_1 = \frac{17 \cdot 16^{8}}{23 \cdot 22_{11}} = \frac{136}{253}$

2)

$P_2 + P_3 + P_4 = 1 - \frac{136}{253} = \frac{117}{253}$

Ответ: $\frac{117}{253}$

3)

7)

$x_1 x_2 x_3 x_4 x_5 \qquad x \in [0; 4]$

A) $\{x_1 + x_2 + x_3 - 1 = x_4 + x_5\}$

B) N - ?

① $\begin{cases} x_i = a_i & i \le 3 \\ x_i = 4 - a_i & i > 3 \end{cases}$ ② $\begin{cases} x_i = 4 - a_i & i \le 3 \\ x_i = a_i & i > 3 \end{cases}$

① $a_1 + a_2 + a_3 - 1 = 4 - a_4 + 4 - a_5$

$a_1 + a_2 + a_3 + a_4 + a_5 = 9$

② $4 - a_1 + 4 - a_2 + 4 - a_3 = a_4 + a_5 + 1 = 11$

$N = 9 \quad N = 11$

продолж. на след. стр. →→→

6) $26 : 2 = 13 + 0$

$13 : 3 = 4 + 1$

$4 : 4 = 1 + 0$

$1 : 5 = 0 + 1$

3 7654321	4
4 765321	6
0 75321	1
3 7532	7
0 532	2
0 53	5
0 3	3

253

Ответ: 461 7

7) продолжение

1. $a_i \geq 0 \Rightarrow C_{13}^4$

2. $q \geq 5$

$a_1 + q_2 \ldots + q_9 = 9 - 9 = 5^- \Rightarrow C_9^4$

Ответ: $C_{13}^4 - 5C_9^4$