К/р 1, Вариант 12 1) Donagoemo: CCBVA & C\BCA Mockaeting CCBVA, mo posnocni unoncecmb CB oggem poetra mos Ø, mos restany renomeremby D Uz onpegenenus pagnocime chegyem, zno DCC, a ecu CCBVA u D&B=Ø, mo DCA. Earn me BUA=0, mo C=0. Takueu oбposseur ba bouveonnacornne alyzan ygobiemb poetro cuelono comu.

(5) Toubue sagares moncres regenabume rax: Kos-bo enocoob parenpegarenne 13 rempagers meneg. 6 genibles, ige у канедого межет быне мебое ком-во тетрадей. Tpegemabuer mempæger 3a "D", a rpoereucegy elenegy gemenn-"! Muchel Cilla. Zannich: 000 000 000 000 0 11111, ige pemennelle Abusence Kon-bo nepecmoenobok "D" u "1" (13+5)! - 14.15.16.17.18 - 8568 Ombem: 8568 enococarne 6) |A| = 12; |B| = 7; |C| = 5. Kou-lo cnoc pacemaleme pag=? = 2704156 · 792 = 2141691552 Ombern: cyryeonbyen 2144691552 cnocoda pacomabuma pag

(9) Pacareompine apequarance por hornegobamentement on 19021 12-45_8_1011_13_-1617_1920_, gaille noccegobaments 10076 oggem nobinoprimer. Mu cullecul 12 znarausux yeapp u 9 nponycrob. Cieg. Ha 70 mecme oggem zueun [70]. 21, misoc zueno, conorque Ra electre 70 mod 12 haurelt nourgobornedes nocume. Ombem: Ha 70 mecme naxogremas rucio 5.21 + 17 = 122

Omlem: Предпорядон, гастичний порядок:

Редолексивное ($\forall \alpha \in A : \alpha R\alpha$)

Прануштивное ($\forall \alpha, b, c \in A : \alpha Rb u b Re \Rightarrow \alpha Rc$)

Актисиминетрич. ($\forall \alpha, b \in A : \alpha Rb u b R\alpha \Rightarrow \alpha = b$)

(10)
$$|A| = 70$$
; $|D| = 27$; $|A| = 32$; $|S| = 22$; $|D \cap H| = 10$; $|H \cap S| = 6$; $|D \cap S| = 8$; $|D \cap S| = 8$; $|D \cap S| = 8$; $|D \cap S| = 3$; $|D \cap S| =$

(8) Bce Everior, re cogephi pagnicular l'aprione: $(1-x^3+\frac{7}{5x})^6$ Dux ygodemba nepermues: (x+y+z), zge x=1; $y=(-x^3)$, $z=\frac{1}{\sqrt{x}}$ Mac unnepection ber relever des Z vans c Z l'ammon cien. $(x+y+z)^6 = \mathcal{E}(\kappa)(x+y)^{6-\kappa}z^{\kappa} =$ $= (x+y)^6 + 6(x+y)^5 Z + 15(x+y)^4 Z^2 + 20(x+y)^3 Z^3 + 15(x+y)^2 Z^4 + 6(x+y) Z^5 + Z^6$ $(x+y)^n = \mathcal{E}_{\kappa}(x) x^{n-\kappa} y^{\kappa}$ Ombern: (1) · x6+6x5y+ 15x4y2+20x3y3+15x2y4+6xy5+y6 2 15x4z2+60x3yz2+90x2y2z2+60xy3z2+15y4z2 3) 15x2z4+30xyz4+15y2z4

(4) z6

$$\frac{4}{3}\left(\frac{18}{3}\right) = \frac{18!}{3!(18-3)!} = \frac{16\cdot 17\cdot 18}{2\cdot 3} = 816$$

Ombem: 816 enococases

(7) Douagame:
$$\stackrel{h}{\mathcal{E}}(-1)^k k \binom{n}{k} = 0$$

$$\sum_{K=4}^{n} (-1)^{K} K \binom{n}{K} = -1 \binom{n}{1} + 2 \binom{n}{2} - 3 \binom{n}{3} + ... + (-1)^{n-1} \binom{n}{n-1} + (-1)^{n} \binom{n}{n}$$

$$K = 1$$

$$d\binom{n}{1} = n\binom{n}{n} = n$$
; $2\binom{n}{2} = n-l\binom{n}{n-l}$ m.r.

$$1!\frac{2h!}{2!(n-2)!} = \frac{h!}{1!(n-2)!} \cdot \frac{(n-1)n!}{(n-2)!(n-n+1)!} - \frac{n!}{(n-2)!1!}$$
; Cuegobarnedotto:

$$-n+2\binom{n}{2}-3\binom{n}{3}+\ldots+(-1)^{n-2}3\binom{n}{3}+(-1)^{n-1}2\binom{n}{2}+(-1)^n n$$

Ombem:
$$E(-1)^{\kappa} k \binom{n}{\kappa} = 0$$
, npa $n > k$