Модумым компромыма робота на з дискретной математики rpyna 9170-11 Hipieuro Kapiau Delumpibus Bapiaum N34 o sa npungunou Dipixul: 14 upuux + 11 & inux + 11 up Bouerx + 11 zeneucerx = 11+11+11+11-44 (was ripulled Bap) У щоб взети Уг одного кольору, треба Baltu use oguy. OT rue, Thera baletu 45 kyll. Bign.: 45. 2) Poznogis at Tholug: (2) Poznogis at Tholug: (2) Poznogis at Tholug: (2) (k-1)! Poznogin az 2603 gun: Caz+k-1 = (az+k-4)! Pognogin a3 6 onomore. 2 - 1 = (a3+k-1)! (a3+k-1) = (a3!.(k-1)! (a3+K+1)! 3aralleura nen-76: a.l. (k-1)! (a2+k-4)! 9310(K-1)! (poznogin e nezaneximuel, o Free emorumo)

(a++k-+).(a2+k-+).(a3+k-1). a+!. a2!. a3!. ((k-1)!)3 (3) чоловіків можна розбити ка кари: (2!) 5.5! ancedaceed Charolyweer pepecranolin 8 beepequie nap. Ta conseer map) в Minnes pozoubacorace Mes: (2!) 5 (nocosalen (Tyt pono ipat nopregox).
B (600): 210.5! (nocosib 2 (4) kin-ть перестиновок n = 4 ° = 24 I nominia nozugii komuna yugppa z'ebnettone n = 24 = 6 pazib. Cyma yupp 1+2+3+4=10 Ockinora koreina yappa 3'elnetto a 6 pa 316, mo que que noxuni noqueja 6-10=60 Buecok nozugii 6 302. cycley: 60.1000 = 60000 (Tualei) 60.100 = 6000 (corcei) 60.10 = 600 (genetiku) 80.1=60 logarery1) 302. cyma: 60+600+6000+6000=66660

Ba) UU (one bpax.), peecera big ogo 9 n-2 paz 16. OTREE: 3-10n-2 6) 1 1819 1909), galli yugppu pizui, otrice 9 bap. n-1 pazib. Bign.: 9-9"=9" 8) Kenapui: 1, 3, 5, 4, 9(5 Gep.) 2) napuux 5 baf, 5e3 0 - 4 bap. h-1 pazi6

L, gali 5n-1. Otre: 9-10n-1-4-5 (auconor. 90 a) 9) I yugppa - L' (oez O +a P), gari 9 bap. h-1 pagis
OTREL: 8.8.9 n-1 e) lucio 6 exex + yappa 2 (avanorium go g): 8-9"-1. Bri Weeceler: 9.10" OTRICE: 9.10 7-8-9"-1 [1] 9]+ (o) teg enorses E) Mepura - 9 6ap., 2 - 9, 3 - 8 17.9. Plg, n-1) - recceo neperaciólok n-1 Cellecerib 13 9

6) 9 = p+ e1. p2 e2. pr Kin-16 ginouchib: (l++1).(l2+1). [lk++) er=101, ez=415, ez=202 OTREE ; Kin-TG gilowerkib: (101+1). (415+1). (202+1)=101.415.203 (7) kin-to nepletauobox: 6! +4! 8! = 6! +1! 8! I vego de acet de xeua nobeptata Ta перевертати то уе з менену + и/1-76 ист 21.2. Togi Оуде 6!-4:-8!-21.2 8) A MITTUTE S, B-ten. a) є Іпросто кіп-ть функцій що шожена поб.) 8) t (ananou eno) (koxenous en 3 des A B) t (ananou eno) 9) Muicrutto Kellelleuris. a) Rin-To = Lucley allueurib oyueeua denonceence MXM era recigio k'elecció Mexari m=k2. Togibigu: 2m O) bygo-ere pequelecubue 6, gu. Rua un. M moreena nogati en R = in UR' A - un. negiarouan. Edlellewis MXMI

Kin-to oбрати A' = KINTO- Exercecció o o guerana remonerence (MxM) in caledanyo cerciano k2-k everyent/6. Vexat n=k2-k Togi bign. : 2 n. 40) 1A1 = 16 16196- Cecles. A) 181=12 High. Clu. B1 1AUBI (bigb- 2040-0 & ceceicap) 1A1Bl (bigb. oougba cereinopa) a) 14 VBI = 28 - 4 = 21 14UB1 = 14/+ 1B1 - 1A NB) #21=16+12-1A()B1 1A/B1=16+12-29=4 1A/BI = 1AI - 1A/BI = 16 - 7 = 9 P(A)=65%- Lece +. XI. A p(B)=451, - 447. 20. B P(C) = 50 %. - 4eer xe C P(ANB)=304. - Lever. re. AiB P(B)()=201- - recep see. BiC PlAnc)=40x - reet xe. Ail p(A1B10) = 10% - wer, yi ra.

a) P(AUBUC) = P(A) + P(B) + P(C) - P(A)B)-1 - P(B(C)-P/A(C)+b(A(B)C)= - 65+45+50-30-20-40+10 = 80% O) 3 a - 20% (-800-80) 6) P(toucuo 2 xe.) = P(A/B)+P(BAC)+ +P(ANC)-3.P(ANBNC)= = 30+20+40-3.10=80% 2) P(ne neu. 2 xe.) = P(+ouco 2 xc.) + P(ANBNC)= =60+10=70%. 73) Cm = 3!(m-3)] - Kin-to oop. 3 peg ke Cn = 3!(n-3)! - Kinto 00p. 3 ctobugi £ 3! cnocooi 6 poscerierara prizuehekoepobi Typu (nopegor Canenu Beet) OTREL KINTO = (m3 · Cn3 · 3! = = 3!(m-3)! 3!(n-3)! 3! 99 Enement Monee noulemans: repressió nigemoneum, gpgrin ta reognia. Marcelo 3 bap: 3 m All bunno vaturo 16 cenorgon (none bi lele-Menty ne naulkeats megulia nègalnoment

Mogi, Cign: 3m-1 (3) 1) 0 gua m. 3 I uperroi +a 27. 3 I aperroi. h. (k = n . 2 (k-2)! 2) 27.37 upelloi +a 1+.3 # upelloi. k. Cn² = k. 2!(n-2)! Juogi: k. 2!(n-2)! - N. 2!(k-2)! (16) Moreno 50 napunx uncert, 50 nenapunx Bi una napui: (50 = 31.47! = 48.48.50 Dea unava velnapui, enapue: (50 = 2 12 men.) (50 = 50 (1 napue) 48.49.50 48.50 50 Thogi: 6 Thomas 1 Bar kin-To ycepp-10, pe buen. 3 i 5,3 en. 8 dlogi: P8 = 81 18) n-a, m-b, k-c 1) Mepea. a i 6 = n!.m! 2) Boraba C, ogge n+m+1; k = h+m+1

Mogi: Cn+m+1 = k! (n+m+1-k)! drugo K>u+u+1-poze ue i cuej E

OTRE! WIN-TO CLEIB = (n+m)! (n+m+1)! K! (n+m+1-K)! (evero K & n+m+1) lnego k > n + m + 1, to k/n - 76 (et 6 = 0.

(9) 4) 3 i une. 134: $(y^3 = 31.4) = \frac{4.6.5}{3.2.7} = 35$ 2) 6 poo 1315: (15 = 65.9) = 6.5.4.3.2.7 = 5005kin- To Cuocooib = Cx · C,5 = 35 · 5005 (20) Kin-76 Buspary & oció z k: Cx = 4!(k-4)! Boradona win- T6 = Cyna buix moxemberx Capiciuris que 4 6ig pgok Bign: ECK 21) ronocui - a, o, a, a - 4 1) $n \beta u z 0 n 0 u i - \kappa, 6, 6, p, \kappa - 5$ 1) $n \beta u z = 2! \cdot 2! = u = 30$ $2) 201. = \frac{4!}{3!} = \frac{24}{6} = 4$ Lepry6: 30.4=120 (npur - 1, 3, 5, 4, 9, 20 noc. - 2, 4, 6, 8) (2) 20 roccii - 5, npuz - 6 I npuronocuux gnik cobaceers nopegon (0,0,9,k,p;p)

2010m; Cx = 5:2, = 6-4 (moneron 6 crabaty 5 rono cuese 6 4 informers) (31) +ine. copt - X. Ban. 12 copt 16. Ireyo Baop. 2 +. Copi. X - To peury 6 3 12 duego Busp. 3 + apr. X - to peller. 5 3 /2 Due novemoro Bunagry: C12+8-k K- MIN-TO TICTELLOK COPTY X (KE [2; 8]) Dani 054. gul nommoro bunaguez i gogaTa. (39) (a) $A_s^2 = A_s^3$ (b) $A_s^2 = \frac{50!}{3!} \neq A_s^3 = \frac{50!}{5!} = \frac{6!}{5!} = \frac{6!}$ As = As O As = 5! = 0 + As = 01 = 120 06 = 66 D Bign. 2 ie 32) 301. nin-To repertouobon - lo: Burn. 6 epor 10 gib - 8! 17.9.

OTALL, KIN-TO Repletation of Xora o ogumes regreeiencement unicyeul! \(\(\langle \) 5ez mezminux mices 10! - E 1-1) K+1. (10 . (10-K)! (34) Qn+2=10-Qn+1-25-an+32h, a0=-1, a1=-12 an+2-10 an+1 +25 an = 3211 x 2-10x+25=0 21 = x2 - repathici6 2 an = ((1+(2h) · x" = ((1+(2h) · 5h f(n) = Rm(n). 2 = 32 4 . 1h an = Qm(n)-2" = an+6 an+2a+6-10an-10a-106+25an+256=324 16 an-8a+16 B=324 | 16a = 32 | | a = 21-80+166=096=1 at = 21+1 an = an +an an=(C1+C2n)-5424+1

ao=-1=4+1 (1=-2 a1=-12=(C+(2)-5+3=-10+5(2+3=-12 an= (-2-11) 547211+1 (38) an=2.an++3" n>0 a=+ f(x)=a.+a,x+a2x2+...+anx"+ -12 Doun: na 2 x $2 \times f(x) = 20.0 \times + 20.0 \times 3 + ... + 20.0 \times 4 + 20.0 \times 4$ Crevenebeets pla 13 zarailbalen melenoin 3 nx n $3^{2}x + 3x + 9x^{2} + ... + 3x + 3x + ... = 7 - 3x$ $f(x) - 2x f(x) + \frac{1}{1-3}x = a_0 - 1 + a_1x - 2a_0x - 3x +$ + a 2 x 2 - 2 a 1 x 2 - 0 x 2 + - + a 1 x 2 2 a n - 1 x 4 - 3 x 4 = $= a_0 - 1 + (a - 2a_0 - 3)x + (q_1 - 2a_7 - q_3)x^2 + ... +$ + (a, -2an-1-321) 2n f(x)(1-2)()=1+1+1-3>(+1x) = (1-2x)(1-3>c) = 1-2x 1=(1-3x)A+(++2x)B 1= (-3A - 2B) x + (A+B

A+3=+ 3A+2B=0 - 1 B=3 (4-2x)(1-3x) = -2 + 3 $\frac{4}{1-3x} = -2 \left(1 + 2x + 4x^2 + ... + 2^n x^n + ... \right)$ $\frac{3}{1-3x} = 3(1+3x+9x^2+-+3^4x^4+--$ Appleyer gel 3 araus voro ullus!

an = -2"+1 + 3"+1 (bign.) (42) Bouce near aconcegit, Butita 3 nigrey na 1 nobepai, onnée manor 10 Bap Europy. To ley: 108 45) 9 nacaxupis. 10 nos. pynu - 2, 3, 4 N Nin-76 cnocotis! 3-rin-76 rpyn CN. CN-m. CN-m-p. AD Cg. Cy. 1. A 10 = 2!. 4! 3!.4! 7! = 2 48.9 5.6.4 (8.9.10) = 36.35.420 = = 1260. 7 no