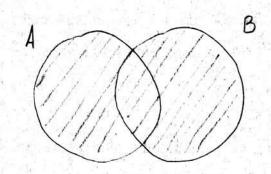
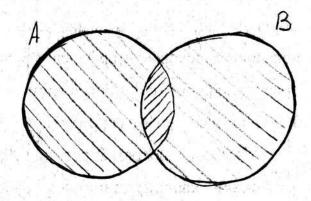
Durgernae navenerum D3 1.

AUB = ADBD (ANB)





111 - ANB

11 - ADB

1 - ADBD (ANB)

Donamen somgectoo nerogon sububanentions no eodpapolanni spubegen noolyo rais k rebeis.

$$= A \triangle (B \cap \overline{A}) = (A \setminus (B \cap \overline{A})) \vee ((B \cap \overline{A}) \setminus A) =$$

Mesog xapaux epuirmecunx apyminui

$$= \chi_{A} + \chi_{R} + \chi_{A}\chi_{B} - 2\chi_{A}\chi_{A}\chi_{O} - 2\chi_{A}(\chi_{B} + \chi_{A}\chi_{B} - 2\chi_{A}\chi_{A}\chi_{C}) =$$

$$= \chi_{A} + \chi_{R} + \chi_{A}\chi_{R} - 2\chi_{A}\chi_{R} - 2\chi_{A}\chi_{B} - 2\chi_{A}\chi_{B} + 4\chi_{A}\chi_{B} =$$

$$= \chi_{A} + \chi_{R} - \chi_{A}\chi_{R}$$

$$= \chi_{A} + \chi_{R} - \chi_{A}\chi_{R}$$

$$(A \cap B) = ((A \cap B)) \vee ((A \cap B) \vee (A \cap B)) =$$

$$= (A \cap B) \cap \overline{A \cap B} \vee A \cap B \cap \overline{A \cap B} =$$

$$= (A \cap B) \cap \overline{A \cap B} \vee A \cap B \cap \overline{A \cap B} =$$

$$= A \cap (B \cap \overline{A} \vee \overline{B} \cap B) = A \cap (B \cap (\overline{A} \vee \overline{B})) =$$

$$= A \cap (B \cap \overline{A} \vee \overline{B} \cap B) = A \cap (B \cap \overline{A}) =$$

$$= A \cap (B \cap \overline{A} \vee \overline{B} \cap B) = A \cap (B \cap \overline{A}) =$$

$$= (A \setminus (B \cap \overline{A})) \cup ((B \cap \overline{A}) \setminus A)) =$$

$$= (A \setminus (B \cap \overline{A})) \cup ((B \cap \overline{A} \cap \overline{A})) = A \cap \overline{B} \cup A \cap A \cup B \cap \overline{A} =$$

$$= A \cap (\overline{B} \cup A \cup B \cap \overline{A} = A \cup B \cap \overline{A} = (A \cup B) \cap (A \cup \overline{A}) = A \cup B$$

$$= A \cap \overline{B} \cup A \cup B \cap \overline{A} = A \cup B \cap \overline{A} = (A \cup B) \cap (A \cup \overline{A}) = A \cup B$$

$$\begin{pmatrix}
0 & 1 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & 0 \\
0 & 0 & 1 & 1 & 0 \\
1 & 0 & 0 & 1 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
0 & 0 & 0 & 1 & 1 \\
0 & 1 & 1 & 0 & 0 \\
0 & 0 & 0 & 1 & 1 \\
0 & 0 & 0 & 0 & 0
\end{pmatrix}$$

$$= \begin{pmatrix}
0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0
\end{pmatrix}$$

$$X_{AUB} = X_A + X_B - X_A \cdot X_B$$
 $X_{AABBA}(ANB) = X_{AAB} + X_{ANB} - 2 X_{AAB} \cdot X_{ANB} =$
 $= X_A + X_B - 2X_A X_B + X_A X_B - 2 (X_A + X_B - 2X_A X_B) \cdot X_A \cdot X_B =$
 $= X_A + X_B - X_A X_B - 2X_A^2 X_B - 2 X_A^2 X_B^2 + 4 X_A^2 X_B^2 =$
 $= X_A + X_B - X_A \cdot X_B - 2 X_A \cdot X_B + 4 X_A \cdot X_B =$
 $= X_A + X_B - X_A \cdot X_B - 2 X_A \cdot X_B + 4 X_A \cdot X_B =$
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 $= X_A + X_B - X_B - 2 X_A \cdot X_B + 4 X_B^2 \cdot X_B =$
 $= X_A + X_B - X_B \cdot X_B - 2 X_B^2 \cdot X_B^2 \cdot X_B^2 \cdot X_B^2 \cdot X_B^2 =$
 $= X_A + X_B - X_B \cdot X_B^2 \cdot X_B^2 \cdot X_$

| | P | И | C | A | T_ |
|-----|---|---|---|---|----|
| P | - | - | - | + | _ |
| T | 1 | + | 1 | _ | - |
| poc | _ | - | - | _ | |

Replace 4 charicion no coopered frame

Die unexplanus nouppers murgoun

amous onoulum:

$$\| p^2 \| = \begin{pmatrix} 0 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 & 1 & 0 \\ 1 & 1 &$$

$$\|6^2\| = \begin{pmatrix} 1 & 0 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 1 & 0$$

Obuse mus 2×4 learn paraparou. $|R^5/N| = P_H(2, ..., 2) = \frac{1}{5}(2^8 + 42^2 \cdot 2^3 + 2^4 + 2 \cdot 2^2) = 51$ Korap nou r'b' = 13, 50 err upercurant 13

Herotrement and paraparous, nou noroport

normanne yearon brupanieno no 4 bepunnin

3 agara N1

A (0,0), D (10,10)

B (8,8), C1 (3,3), C2 (4,5), C3 (7,7), C4 (4,7).

Myra S- unouse run-les romann, Si, i = 1,4 -un-los roma un A 6 D, nos. Moox repes B 4 Ci

Toyot

S = SLUSZUSZUSY

No gropmyce burnonemis

$$|S| = (|S_1| + |S_2| + |S_3| + |S_4|) -$$

$$-(|S_1 \cap S_2| + |S_4 \cap S_3| + |S_4 \cap S_4| +$$

$$+ |S_2 \cap S_3| + |S_2 \cap S_4| + |S_3 \cap S_4|) +$$

$$+(|S_4 \cap S_2 \cap S_3| + |S_4 \cap S_2 \cap S_4| +$$

$$+(|S_4 \cap S_3 \cap S_4| + |S_2 \cap S_3 \cap S_4|) -$$

$$+(|S_4 \cap S_3 \cap S_4| + |S_2 \cap S_3 \cap S_4|) -$$

$$0 - S - Q$$

$$|S_{1}| = |S_{A-c_{1}}| \cdot |S_{c_{1} \to B}| \cdot |S_{B \to D}| =$$

$$= |C_{3+3}^{3} \cdot C_{8+8-3-3}^{8-3} \cdot C_{10+10-8-8}^{10-8} =$$

$$= |C_{6}^{3} \cdot C_{10}^{5} \cdot C_{4}^{2} = \frac{6!}{3! \cdot 3!} \cdot \frac{10!}{5! \cdot 5!} \cdot \frac{4!}{2! \cdot 2!} =$$

- 15, ns, ns, ns, 1.

$$|S_{2}| = |S_{A \to c_{2}}| \cdot |S_{c_{2} \to R}| \cdot |S_{R \to D}| =$$

$$= C_{A}^{A+2} \cdot C_{A}^{A+2} \cdot |S_{C_{2} \to R}| \cdot |S_{R \to D}| =$$

$$= C_{A}^{A+2} \cdot C_{A}^{A+2} \cdot |S_{C_{2} \to R}| \cdot |S_{R \to D}| =$$

$$= C_{A}^{A+2} \cdot |S_{C_{2} \to R}| \cdot |S_{R \to D}| =$$

$$= C_{A}^{A+2} \cdot |S_{C_{2} \to R}| \cdot |S_{R \to D}| =$$

$$= C_{A}^{A+2} \cdot |S_{C_{2} \to R}| \cdot |S_{R \to D}| =$$

= C14. C1 . C2 = 41184

$$C_{m+n}^{m} = \frac{(n+m)!}{m!n!}$$

$$C_{n}^{m} = \frac{n!}{m!(n-m)!}$$

$$C_{k+c}^{k} = \frac{m-k}{m+n-k-c}$$

$$|S_{4}| = |S_{A \to c_{4}}| \cdot |S_{C_{4} \to 6}| \cdot |S_{C_{4} \to 6}| = |S_{C_{4} \to C_{4}}| \cdot |S_{C_{4} \to C_{4}}| = |S_{C_{4} \to C_{4}}| \cdot |S_{C_{4} \to C_{4}}| \cdot$$

$$|S_{2} \cap S_{n}| = |S_{A \to c_{1}}| \cdot |S_{c_{2} \to c_{1}}| \cdot |S_{c_{1} \to n}| \cdot |S_{n \to n}| =$$

$$= C_{9}^{4} \cdot C_{9+7-9-5}^{4-7} \cdot C_{5}^{4} \cdot C_{7}^{7} =$$

$$= C_{9}^{4} \cdot C_{2}^{6} \cdot C_{5}^{6} \cdot C_{7}^{7} = [3780]$$

$$|S_{1} \cap S_{2} \cap S_{3}| = |S_{A \to c_{1}}| \cdot |S_{c_{1} \to c_{2}}| \cdot |S_{c_{2} \to c_{3}}| \cdot |S_{c_{3} \to B}| \# A_{AB}| =$$

$$= C_{6}^{3} \cdot C_{3}^{1} \cdot C_{5}^{3} \cdot C_{2}^{1} \cdot C_{4}^{3} = \boxed{7200}$$

15. 1 Sz 15/2 15A-cal Scarcal · | Scarcal · | Scarcal · | Scaral | KBnol = C3 · C3 · C2 · C4 · C4 = [1600]

15, 15, 15, 15 1 - 15 A - cal - 15 CA - cal

|S2 153 154 = |SA-c2 |. |Sc2+ c4 |- |Sc4+C7 |. |Sc3+B| |SB+D|

$$= C_6^3 \cdot C_3^1 \cdot C_2^0 \cdot C_3^1 \cdot C_$$

= 63516

$$|S| = (30240 + 26460 + 41184 + 9900) -$$

$$- (12600 + 16800 + 3000 + 15120 + 3780 + 3960) +$$

$$+ (7200 + 1800 + 1200 + 1512) -720 =$$

1. Maison raissace penienne ognoprognos un perc. constronemen e naramanum sonolineir

$$\begin{cases} x_{n+1} + a_1 x_{n+1} + a_2 x_{n} = 0 \\ x_1 = b_1, x_2 = b_2 \end{cases}$$

To un:

$$X_{n+2} + X_{n+1} - 2X_n = 0$$

 $X_1 = 1$, $X_2 = -3$

1 apartepuramente yp-e: $\lambda^2 + \lambda - 2 = 0$ λ1=-5 Kparnacou 1 nampont Torga noweyo laneworden. $\varphi_n^{(1)} = (-2)^n \quad u \quad \varphi_n^{(2)} = 1^n$ ospagner summer ly expanste remens, a , odne pembru uneer lug: $x_n = C_1 (-2)^n + C_2$ Mogradosa n=1, n=2 a minoscripo harouenne quelme, nousraem: 11=-26+62 1-3=46,+62 . 4 = -6C, $C_{1} = -\frac{2}{3}$

Orange
$$C_{2} = 1+2(1=1-\frac{4}{5}^{2}-\frac{1}{3}^{2})$$

C 3 afamme varanemen gustuse.

$$x_n = -\frac{2}{3}(-2)^n - \frac{1}{3}$$

5) Novem obuse penseur neognoposnono um. per coornousement: Xn+2 + 0, Xn+1 + a2 xn = Cn 14 91 = 1 92=-2 Cn = 3n-1 To ever Da neig /odujes persens $x_{n+2} + x_{n+1} - 2x_n = 3n-1$ Journame raisa down tenen work - onop woomsen Br = 3n-1 = 1 P1 (n) - Magunounous reptors in June natyon & nyune A: Tun => rowner pener acyser menan bying $x_n^{44} = n^s P_1(n) 1^n$ use Pala) = An+B, S=1-manora nopre d=1 x up. 4p-a Xn+2 = (n+2) (A(n+1)+B) Te xn=n(An+B) Mayrol reen l usomer coot hours. (n+2) (A(n+2)+B)+(n+1) (A(n+1)+B)-2n(An+B)=3n-1 A(n+2)2+B(n+2) + A(n+1)2 + B(n+1) - 2An2 - 2 Bn = 3n-1 Anz+4An+4A+Bn+2B+Anz+2An+A+Bn+B-2Ant-2Bn=3n-1 6An + 5A + 3B = 3n - 1AZE $\begin{cases} 6A = 3 \\ 5A + 3B = -1 \end{cases} \begin{cases} A = \frac{1}{2} \\ \frac{5}{2} + 3B = -1 \end{cases}$ 38=-1-5 38=-= B=-=

Torya odnie penseme neogra pognoro yp. 2 nomno zamurar b buge:

$$X_{n}^{ou} = X_{n}^{oo} + X_{n}^{uu} = C_{1}(-2)^{n} + C_{2} + n(\frac{1}{2}n - \frac{2}{6})$$

Varono e semenn corromen.

$$x_{n}^{4n} = n\left(\frac{1}{2}n + \frac{7}{6}\right)$$

$$\frac{3n^2}{6} - \frac{2(-1)^{2n}}{6}n - \frac{5}{6}n + \frac{2}{9}(-1)^{2n} =$$

$$=\frac{n^2}{2}-\frac{2h}{8}-\frac{5}{6}n+\frac{2}{9}=\frac{h^2}{2}-\frac{2h}{6}$$

Gasungarop St(2)= {E, (13) (84)(75)} Op Swa 2: 2, 4, 6, 8 Yum stronggrand = 8:

H= {E, (2468) (1357), (2864) (1753), (13)(84)(25), (

Coolemnoop

St(1) = (E, (28)(37)(46))

Opénon: 1,3,5,7

Turno obromop purmet = 81

H= {6, (1322) (5400) (1223) (5864) (28)(37)(46), (15)(241(86), (13)(84)(76), (17)(26)(35), (15)(37)(26)(48) }

Yumober ungene:

PHEX1, X2, X3, X4, Xr, X6, X2, X3) = 1 (x1 + 4 x1 x2 x2 + x2 + 2x4)

Reserver nes no ubanema mos parmason.

Inv = (RS/~) = PH (r+B, 12+82, ..., 12+82) =

= 1 [(r+b)2+4(r+b)2(r2+62)3+ (r2+62)4+ 2(x7+64)2]=

= 68 + 262 × +66 2 + 408 5 x3 + 1364 x4 + 1062 x5 + 662 x6 + 28 x2 + x8