1. So so determine
$$A = \{a \mid a \in \mathbb{Z} \mid \exists i \text{ } \frac{2at1}{a+1} \in \mathbb{Z}^2.$$

$$a \in A = \frac{2a+1}{a+2} \in \mathbb{Z} = a+2|2a+1$$

Penton
$$a = -5$$
, and $\frac{2(-5)+1}{-5+2} = \frac{-9}{-3} = 3 \in \mathbb{Z}$

$$a = -3$$
, asom $\frac{2 \cdot (-3)+1}{2 \cdot (-3)+1} = \frac{-1}{-5} = 5 \in \mathbb{Z}$

$$a = -1$$
, and $\frac{2(-1)+1}{-1+2} = \frac{-1}{1} = -1 \in \mathbb{Z}$

Expader, A={-5,-3,-1,1}

$$\frac{2a+1}{a+2} = \frac{2a+4-3}{a+2} = 2 - \frac{3}{a+2}$$

$$\frac{24.0EZ}{942} = Z = \frac{3}{942} = Z = 3$$

- 2. Freitoti ca, daca A, B, C multumi, atumci An (BUC) = (ANB) U(ANC).
- "C": *E HU (BOC) => *EH FixE BOC

Bosa x∈B: Com x∈A => x∈ ADC => x∈ (ADB)U(ADC)

Fig # E (ANB) U (ANC) => #E ANB Now #E ANC

Book #E ANB => #EB G

Comm #EA => #E AN(BUC)

Book #E ANC => #EB AN(BUC)

Book #E ANC => #EB C

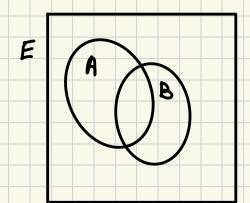
Comm #EA => #EAN(BUC)

Bon

A	B	C	BUC	ANB	DOG	AU (Boc)	(AUB) (UUC)
a	9	9	0	0	0	○ ←	→ 0
0	4	0					
0	0						
0	4	4					
1	0	0					
4	4	0	1	4	0	₹ ←	→ 1
4	0	4					
4	4	4					

3. Legile Dui De Horgom

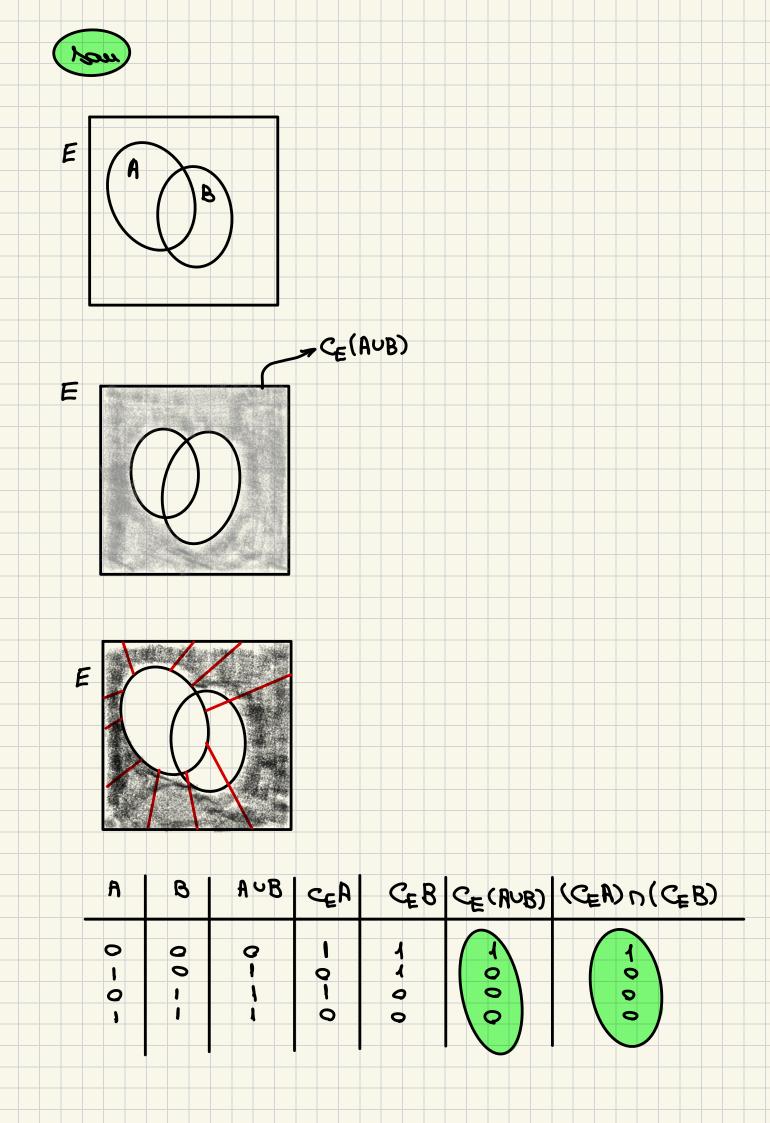
AIBCE, atunci



『C" 法证 头ECE(AUB).

=1 天(E) (HOB) =1 天(E が天 安 HOB=1 天(H が天(B

13.3€E =1



+ (-1)m-1 | A11 ... 17 Am

Sumoraf às soitametam situabnie miry mortenamed are Dac pt. orice mEN, m > 2 zi vorice multime Sinite As, ..., Am. $P_{m}: |A_{1}\cup...\cup A_{m}| = \sum_{1 \le i \le m} |A_{i}| - \sum_{1 \le i \le m} |A_{i}\cap A_{i}| + A_{i} + A$ + 2 | Ain Aiz N Aiz] - ... + + (-1)m-1 | A11... 17 Am | 500=2 Etopa I. Narificare: 1A, UA21 = 1A2/4/A2/- 1A, MA2/ adr. Etopa I agots Prosuperom Pm adou. Ji demonstram Pm+1 adou. m >2. But1. [HYO ... OHUT] = 1 (HYO ... O HU) O HUT] = = 1 ALU... UAm/+ | Am+1/- | (ALU... UAm) DAm+1 ((ALU... U Am) D Am+1 = | (A1 D Am+1) U (A2D Am+1) U... U) (Am DAM+1) (KK) X2 = | Am+1 + Z' | Ai| - Z' | Ai+ n Ai| + 1 = i = m | A = i = i = m | Ai+ n Ai| + + Z' | Ai1 N Ai2 N Ai3] - ... + $+ (-1)^{m-1} | A_1 D_1 ... D_m | - (**) = (I)$

$$(**) = \sum_{1 \le i \le m} |X_{ii}| - \sum_{1 \le i \le m} |X_{ii} \cap X_{ij}| +$$

$$+ \sum_{1 \le i \le m} |X_{ii} \cap X_{ij} \cap X_{ij}| - ... +$$

$$+ \sum_{1 \le i \le i \le m} |X_{ii} \cap X_{ij} \cap X_{ij}| - ... +$$

$$+ (-4)^{m-1} |X_{ii} \cap X_{ij}| - ... +$$

$$+ (-4)^{m-1} |X_{ii} \cap X_{ij}| +$$

$$+ \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| +$$

$$= \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| +$$

$$= \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| +$$

$$= \sum_{1 \le i \le m} |A_{ii} \cap A_{m+1}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{ij}| +$$

$$= \sum_{1 \le i \le m} |A_{ii}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{ij}| +$$

$$= \sum_{1 \le i \le m} |A_{ii}| - \sum_{1 \le i \le m} |A_{ii} \cap A_{ij}| +$$

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$$= \sum_{1$$