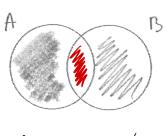
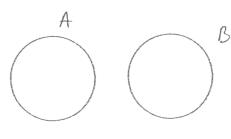
Principiul moduderii și n du derii

Fie A, B multimi finite

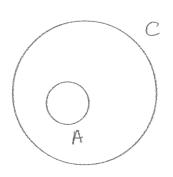


 $A \cap B \neq \phi$



 $A \cap B = \phi$

 $|A \cup G| = |A| + |G| - |A \cap G|$



Dava ofler I CIAI afler

A = 11, 2, ..., 1000 }

B= la EA | 31a nom 51a nom 71a)

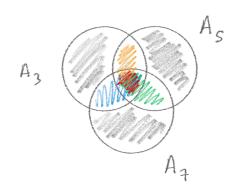
Colubati 181

A U B
$$\ni$$
 a $(=)$ a \in A now a \in B

A N B \ni a $(=)$ a \in A \uparrow ; a \in B

A N B \ni a $(=)$ a \in A \uparrow ; a \notin B

Jol:



$$|A_3 \cup A_5 \cup A_7| = |A_3| + |A_5| + |A_7| - |A_3 \cap A_5|$$

$$-|A_3 \cap A_7| - |A_5 \cap A_7| + |A_3 \cap A_5 \cap A_7|$$

$$= |A_3| + |A_5| + |A_7| - |A_{15}|$$
$$-|A_{21}| - |A_{35}| + |A_{105}|$$

$$= \begin{bmatrix} 1000 \\ 3 \end{bmatrix} + \begin{bmatrix} 1000 \\ 5 \end{bmatrix} + \begin{bmatrix} 1000 \\ 7 \end{bmatrix} - \begin{bmatrix} 1000 \\ 15 \end{bmatrix} - \begin{bmatrix} 1000 \\ 35 \end{bmatrix} - \begin{bmatrix} 1000 \\ 21 \end{bmatrix} + \begin{bmatrix} 1000 \\ 105 \end{bmatrix}$$

× 2

Côte numere naturale mai mini nou egale un un milion (10^6) ner neut de forma χ^2

ran de forma x^3 ran de forma x^5 , unde $x \in \mathbb{N}$.

Jol:

 $Y = \frac{1}{n} \in \mathbb{N} \setminus n \leq 10^6, \quad n \neq x^2 \quad non \quad n \neq x^3$ $n \neq x^5, \quad \chi \in \mathbb{N} \setminus 3$

 $Y_2 = \{ n \in IN | n \le 10^6 \text{ a.i. } n = h^2 \text{ pt } h \in IN \}$ $Y_3 = \{ n \in IN | n \le 10^6 \text{ a.i. } n = h^3 \text{ pt } h \in IN \}$ $Y_5 = \{ n \in IN | n \le 10^6 \text{ a.i. } n = h^5 \text{ pt } h \in IN \}$

 $Y, Y_2, Y_3, Y_5 \subseteq A = \{0, 1, ..., 10^5\}$

m $\in Y$ (=) $m \notin Y_2$ $m \in L_A Y_6$ $m \notin Y_3$ $m \notin Y_3$ $m \in L_A Y_5$ $m \in L_A Y_5$

(=) $m \in l_A Y_2 \cup l_A Y_3 \cup l_A Y_5$

 $(\Rightarrow) \qquad \sim \in \left[\left(\begin{array}{cccc} Y_2 & \cap & Y_2 & \cap & Y_5 \end{array} \right) \right]$