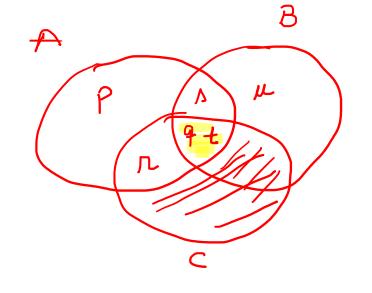
$$Pag_{15}$$

28 $A = |P_1 | P_1 | P_1 | P_2 |$
 $B = |P_1 | P_2 | P_3 | P_4 |$
 $C = |P_1 | P_4 | P_4 |$
 $C = |P_1 | P_4 | P_5 |$
 $C = |P_1 | P_4 | P_5 |$
 $C = |P_1 | P_5 |$



ANB=
$$19, 10, 10$$

ANC= $19, 10, 10$
CCA
BNC= $19, 10$

$$\frac{-1/-}{29} A C B \Rightarrow A U B = B$$

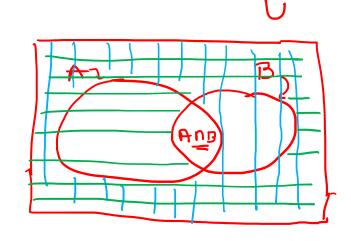
$$\frac{B}{CB} A / D A = B$$

$$A U B = B$$

$$A U B = B$$

$$A U B = B$$

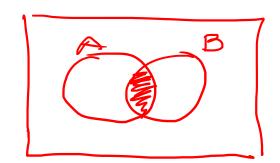
$$C_{AUB}^{A}UA = C_{B}^{A}UA = B$$



AUB #

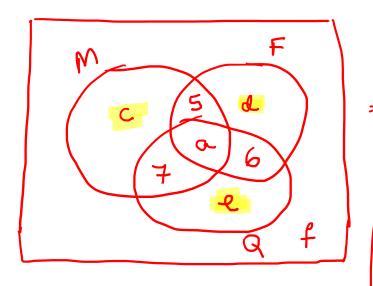
pensando
$$\bar{A} = U - A = C_{U}^{A}$$

$$C_{U}^{\overline{A}U\overline{B}} = U - (\overline{A}U\overline{B}) = (A \cap B)$$



$$C_{U}^{\overline{A}U\overline{B}} = \overline{A} n\overline{B} = AnB$$

C1 M: cong-aluns mat; F: cong-alunes tris; Q: cong-alunes Quin U: turma



$$a+b=a+5 \implies b=5$$

alunos que cursan pelo meno uma das

3 disciplinas

No minimouma

pode fazer | lxatale 1

en exatale 2

en exatale 3

M(MNF) = M(MNFNQ) + 5

$$m((M \cap Q) - F) = 7$$
 $m((F \cap Q) - M) = 6$
 $m(\overline{M} \cap \overline{F} \cap \overline{Q}) = f$

m(AUBUC) = 190

$$150 + 18 + a = 190$$

$$a = 22$$

Resp 22 cursam as 3 disciplinas

$$m(A) = 7$$
 $m(B) = 5$

$$2^{7} - 2^{5} = 128 - 32$$

Teoria

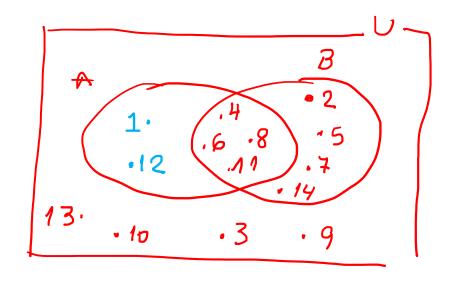
A cony.

$$n = n(A)$$

 n^2 subcony. do $A \in 2^n$

$$\begin{array}{lll}
\bar{A} &= C_{U}^{A} &= \sqrt{2} 5, 7, 3, 9, 10, 13, 145 \\
ANB &= \sqrt{4, 6, 8, 115} \\
AUB &= \sqrt{1, 7, 5, 5, 5, 7, 8, 10, 12, 145} \\
\frac{2 \in \bar{A}}{2 \notin A} &= 2 \in AUB \implies 2 \in B \\
\frac{5 \notin A}{5 \in \bar{A}} &= 5 \in AUB \implies 5 \in B
\end{array}$$

 $1 \in AUB$ $1 \notin \overline{A} \implies 1 \in A$ $12 \in AUB \in 12 \notin \overline{A} \implies 12 \in A$



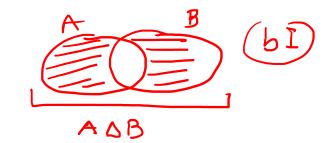
$$A = \{1, 12, 4, 6, 8, 11, 6, 8, 11, 6, 8, 11, 6, 8, 11, 2, 5, 7, 14\}$$

$$B = \{4, 6, 8, 11, 2, 5, 7, 14\}$$

$$A = \{1, 12, 4, 6, 8, 11, 2, 5, 7, 14\}$$

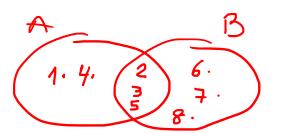
$$A = \{1, 12, 4, 6, 8, 11, 2, 5, 7, 14\}$$

A
$$\Delta B$$
: diferença simetrica
A ΔB = $(A - B) U (B - A)$
A ΔB = $(AUB) - (ANB)$



a)
$$A = \{1, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}\}$$

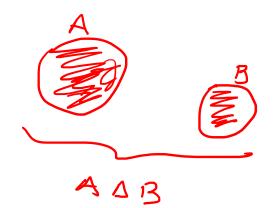
 $B = \{2, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{6}, \frac{1}{7}, \frac{8}{9}\}$





BCA
$$\Rightarrow$$
 A-B \neq B-A $=$ $\not \varphi$
ADB = (A-B) $\cup \not \varphi$ = A-B

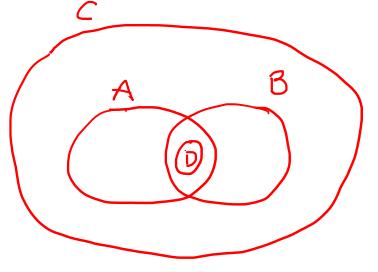
$$ADB = (A-B) U p = A-B$$



bIII

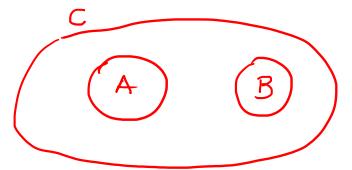
 $AnB = \emptyset$

(5) A,B,C,D Cong. mas vazios



$$AnB \neq \emptyset$$

OLL

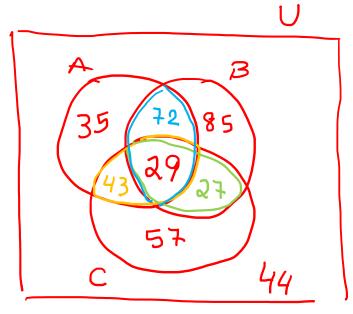


Anb =
$$\phi$$

Mat convers

 $D = \phi$

C 6



a)
$$m(u) = 35 + 72 + 85 + 27 + 57 + 44$$

$$m(I) = 0,60N$$

 $m(E) = 0,45.N$ \Rightarrow $m(IUE) = 0,70N$
 $m(\bar{I} \cap \bar{E}) = 0,30N$
 $m(I \cap E) = 49$

$$m(IUE) = m(I) + m(E) - m(InE)$$

 $0.70N = 0.60N + 0.45N - 49$

$$49 = 1.05N - 0.170N$$

$$49 = 0.35N$$

$$N = 49 = 49.20 = 1140$$

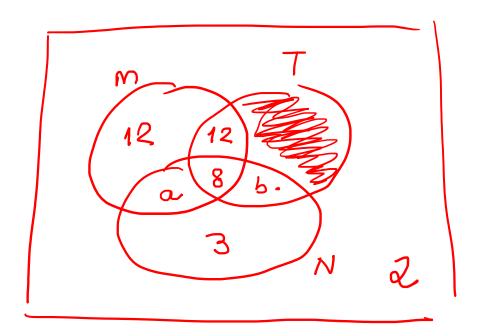
$$1.05N - 0.170N$$

$$N = 140$$

M: mounta pièc T: lande pièc

N. moite pisc

m(muTuN) = 38 m(mnT) = 20 m(mnTnN) = 8



$$38 = 12 + 12 + |a + 8 + b + 3|$$
 e m(N) = $a + 8 + b + 3$
m(N)

$$m(N) = 38 - 24 = 14$$