

A'LL: KOMPUTATIV AUB = BOA $A \cap B = B \cap A$ BR: ANB=BNA (AnB)nc = An (Bnc) ASROCIATIO (AUB)UC = AU(BUC) Mia def? $A \cap A = A$ $A \cup A = A$ And = 6 $A \cup \emptyset = A$ ASB (A) ANR-A ASB G AUB = B Mairie def: X=Y = Hx: (xeX e) xeY) (egentisk (=) uganorok at elmerte) bal: XEANB (XEANXEB (XEBNXEA ()

MINDEN A,B, C holicom

bizz, heret: x e x x x e B

xeA?	7 ×∈ B	XE ANB	XETNA
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HF: többi hasolló

1) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ dishibute U-n 2.) A U (B n C) = (A UB) N (A UC) bit: a fech technila, Peset. HALMAZ MÜLELETEL الدّعض حو YOR AΔB XEAOB Z XEA (T) XEB a "szimmetikus di fforacie" SZIMDIF"

DEF : A \ B XEANB AXEANXEB A kuloubser B ALL T ADB = (ALB) U(BLA) = (AUB) \ (ANB) Dit: Id. fech technike M: (ADB)OC = XX(BOC)

HALMAZOK HALMAZA (HALMAZREN DRER): Pe, :X={ { 1,2}, { 2,3}, { 3,4}} ~ 0 X= } (1,2,3) X halmanrondner: $X := \{a \mid \forall A \subset X : a \in A\}$

SZÓTZÍR HACMAZOK LOCIVA (+)KOMPLEMENTER ANDHOT Ha var eg NAGT (universum) reuli halmar, nelyek minden aktualisan virsge et halmar rene, A CU - nal qu U-ra voucitto 26

KOMPLEMENTERE: U/A fele: Au van A komplementer". $x \notin A \iff x \in \widehat{A}$ Au; XEU: Au: (Komple menter) 5) AUA = U AUB = A OB A) ANĀ - Ø

DEF HARVA'NTHALMAZ : P(A) = H H $\subseteq A$ vapris: XEP(A) (=) x SA {1,2},{1,3},{2,3}, $P(\emptyset) = \{\emptyset\}$ $P(203) = \frac{3}{4}, \frac{3}{4}$

DEF: RENDEZETT PAR:

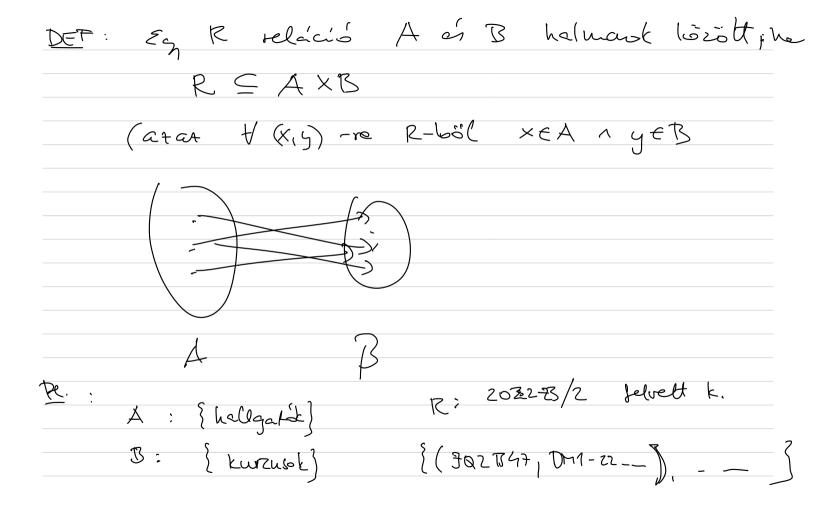
$$(a_1b) := \{ \{a_3\}, \{a_1b\} \} \}$$

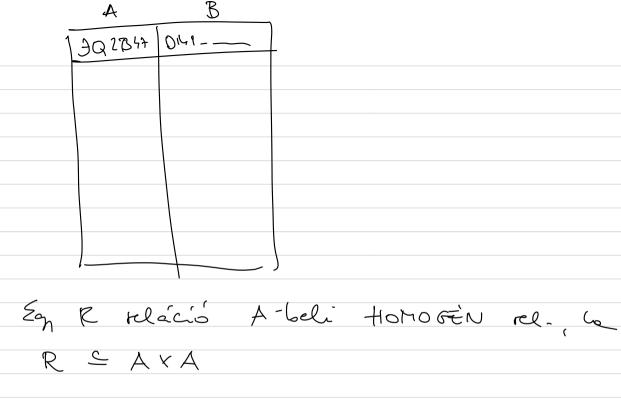
$$(a_1b) = (c,d)$$

$$(a$$

RELACIÓK $\frac{\mathbb{R} \cdot ((a < b) \land (b < c)) \Rightarrow a < c}{(A \leq B) \land (B \leq C)) \Rightarrow A \leq C}$ Z: ((a ontoja b-net) 1 (b ontoja c-net)) =) a ontoja c-net GEO: (e|f 1 f||q) =) e||q TRAUZITIU RELACIÓ oNoK

DEF: Reg relació (BINÉR), ha minden eleme renderett par. pe.: {(1,10),(2,20),(3,30)} $\{(1,1), (1,7), (2,2),$ (2,3) { SZERE PETT SOUT FILMBEN





(ontoje) b-nel () b (többröröse) a ~nd (er invers' R relació INVERZE, R $R^{-1} := \left\{ (b, a) \mid (a, b) \in R \right\}$ P.: R= (1,3),(1,4),(3,3) , WILLAK HEGFORDITASA $\mathbb{R}^{-1} = \{(3,1), (4,1), (3,3)\}$

FEL: Zokni - cipo $\underline{Au}: (R \circ S)^{-1} = S^{-1} \circ R^{-1}$ LE: cipò > 20km $(z,x)\in(R\circ S)^{-1}$ MAJD: II INV. DEF. $(X_1 \geq) \in R \circ S$ f(g(x)) 11 o def. Jy: (x,y)∈S 1(y,2)∈R 1) inv. def-Jy: (y,x) ES 1 1 (2,4) ER 1 It o def-