Ochobrine monegeemba meopine unionclert.

1) muymamusrocnus: AVB=BVA;
ANB=BNA;

2) Account mubicocoms: AV(BVC) = (AVB)VC, AN(BNC) = (ANB)NC,

- 3) Decompusymultipoems: $A \cap (B \vee C) = (A \cap B) \vee (A \cap C);$ $A \vee (B \cap C) = (A \vee B) \cap (A \vee C),$
- 4) 3axour ge lleprana $\overline{A} \cup B = \overline{A} \cap \overline{B},$ $\overline{A} \cap B = \overline{A} \cup \overline{B};$

5) 3aronor regermentementemente : $A \lor A = A,$ $A \land A = A;$

6) Baron nomouseness: $A \cap (A \cup B) = A$; $A \cup (A \cap B) = A$;

3 sancour "rupue" u "epuruuyen" $A \cup \phi = A;$ $A \cap \phi = \phi;$ $A \cup I = I;$ $A \cap J = A;$

- 8) zanon rhomuloperus: $A \cap \overline{A} = \emptyset$;
- 9) zanone ucarreversoro membero: $A \cup \overline{A} = \overline{I}$;
- 10) zanon gbourero gonoverells: $(\overline{A}) = A$.

Thump: 1) Decayame no experiences : An (BUC) = (ANB) U (ANC); a) $An(Bvc) \subseteq (AnB)v(Anc)$. $\forall x \in An(BUC) \Rightarrow x \in A & x \in (BVC) \Rightarrow x \in A & (x \in B) x \in C) =$ \Rightarrow $(x \in A \otimes x \in B) \vee (x \in A \otimes x \in C) \Rightarrow (x \in A \cap B) \vee x \in (t \cap C) =$ = oce (AnB) u (Anc) δ) (An B) V (An c) ⊆ An (BVC) - augeoriere в σоратиро сторогец a) $A \setminus (B \cup C) = (A \setminus B) \cap (A \setminus C)$. $(A \backslash B) \wedge (A \backslash C) = (A \wedge \overline{B}) \wedge (A \wedge \overline{C}) = (A \wedge A) \wedge (\overline{B} \wedge \overline{C}) =$ = An(Bnc) - An(Buc) - Al(Buc),

Derapmobo mouzbepeuve neero

D. Decapmoloru rpouzhegermen An B waser ever-bo ynopropreren nop $A \times B = \{ (x, y) \mid x \in A, y \in B \}$ Rum |A| = m, $|B| = h \Rightarrow |A \times B| = m \cdot n$

 $\begin{cases} (a_1, b_2), (a_1, b_2), \\ (a_1, b_2), (a_2, b_2), \end{cases}$

(u2, 82), (u2,Denapmel chappam: $A \times A = \{(x,y) \mid x,y \in A\}$. A^2 , $A^3 = A \times A \times A$. $(1,2) \neq [2,1]$. $\mathbb{R}^2 = \{(x,y) \mid x,y \in \mathbb{R} \}$ - gerannola nuccocmo. $\mathbb{R}^3 = \{(x,y,z) \mid x,y,z \in \mathbb{R}^3.$ Funapure omorouesus D. Dunapure ommonueune of - Imo noprenousier 60 A x B (ka lui-box du b) A = { 1,2,3,4,5}, nor AxA zagapun 8.0. V: a v b <=> a-B: 2. rapacm-e charento. Treperenceune memerinos. $Y = \{(1,3), (1,5), (2,4), (3,1), (3,5),$ (12); (2,2); (3,3); (4,4), (5,5) 3. Manpuisa 8.0. : leu A/= m, B/= n => reampieisa ruicem papicep mx n $T' = \{t_{ij}\}, t_{ij} = \begin{cases} 1, eeue (a_i, b_i) \in \mathcal{E}, \\ 0, eeue (a_i, b_i) \notin \mathcal{E}, \end{cases}$ Choùomba durapreix omnouverius. Momo TE AXA. 1) Pequeneubrooms: $\forall x \in A$ $x \in x$

- 2) Cullulempuruseme: Hayed: x r y => y r x
- 3) Typanzumubrams. $\forall x, y, \chi \in A: 2 \gamma y, \gamma \gamma \chi \Rightarrow 2 \gamma \chi$

Pour 8.0. pequercubro, cumenempura u marynemnebre =>
040 Abssemcie omriouserusses zaberbasermaconus.