1. AUR := 3 XEM | XEA Odex (B} 2 Ans:= Zx6Mlx6A undx6B? SiM Mong AIBCM " A geschuille mit 8" u Durchschuill A=B (=> ACB UND) BCA Deid Se ligh Jus Rusian Vaerigung 1 Rundod418 Operationen and Morgh D. €. A B ssillen Mingen " A rae-if B"

1

[3

:= 2 x 6 M | x 6 A wd x & B ? " Differenz" A ohus B" 3. A1B

Klanner. Rein enforge 1 Anmer dang

 $(A \setminus (B \cap C))$

Mer dung i Vein.

(A \ B) \ C

Bro

_

V B Ansdanlide Darstelling 2-Din. Voln - Diagramme ANB

سا

(xfR wnd xec) (xfRng) oda(xfRnc) b) 2/3 2/3 2/3 /=> x6A und (x6Boda xec) A'=B' (=> A'EB' and B'EB' (208) 4x pmg xe (80c) (xt A work 58) ods Xe (AnB) U(Anc) a) bodsertig. Tullesta 2 gnass N Def. C Beignid, An Meredery Wide lexy ode bonessa. V ABC Mengen

DA; == 3 XGM | 2x xx. em Jobx ie 21,2,3,-1,28 & Seign A, A, A, A, --, An Teismongen von M neM mit XE A " Codeile Vaerigay va Magan h Vaell geneinemake;

A; := 3 x6M | Quallet ie 31.2,3, --, n 3 get xe A; 3 " End Dela Schild va Menger (A, U(A2, U A3)) = ((A, U A2) U A3)

Mit edidlice Arrest va Elemen 7/2,3] = 3 "Arithrelis" ABEM 2nd. Anzull de Elenat => |M| "Kardualitat" " A und B sind dispubl ANB = 4 m Mark " Godlide Monga" Kardinalitéten

" Reperty V4 |AUB| = |A| + (B| - |AnB|

-

A X B := 3 (a,6) | afA, 568} (a,5) + (5,4) " Kurtesiscles Product" A Paart " of Those " A B Manger A,3 + Q Kombinadia an

Za,63= 25,a3

Position. " Schack beet

(N,1 1,10,2) (h,3,--, (4,8)) }

AxA2x--xAn = 2 (a,1,a2,a3,--,an) | a,6 A; por i=1,2,3,-,23 | Ax x Ax x Ax --- x Ar | = | Ay | 0 | A2 | . (A3 | | M2 | A = 3 DNS, red1,3 B= 30ba, unteng (x) 7 n Margan A, Az, Az, --, Az (PxB = 2 (R,0), (D,u), (F,0), (F,u) } 12 := 1R x 1R Koordinalan 2D Kombinadonla. Zudeide Merze As, Az, ..., An " n- Jupel" Varall gemons Tanger

2 31,23=M 2(M)= 20, 213, 323, 31,233 M= 23= \$ (m)= 223 = 243 6=33 Wichtig Monge " Potenz menge and Monge Monge aller Toleragen von M D(m) = 2 x | x c m } Marge M

2.2 Bamise

Baschmbung moded beten

+ Richtighet von Aussagen, Grand Oussaga, Axlone

+ Legisle Schless Polyennyen

221 Aussayn

you alisia re.

A, B, C, D, --

A: " M ist ein Prinzall "

C; "Für gide Zull nEIN, ngrude, n72 : n=p+q mit 2010en B. " 3120"

Bodenting: W(A) := 3 1 Aussage Agul (1st noture)
Brobenting: W(A) := 20 , Aussage Agul 11dt/ Wah, he'ds nat van Aussagen oals booksche FD. W: Mery audle Aussagen -> 20,13 $\mathcal{N}(A) = \lambda$ $\mathcal{N}(B) = 0$ $\mathcal{N}(C) = ?$

II KorgenRdia II von Aussagen "A wad B"II n Distandia" von Aussagen "A ode 13" " mell A" " Negation Money Aussoga A, B Aussagan Vanhippen! A N B N < B

1 , W(A)=1 and W(B)=1 Bollen tung brye Wahr Rods mat

W(AAB) := >

w(A)=0 ods w(B)=0

1 W(A)=1 ods W(B)=1

W(AVB) =

0=(B) = 0 and w(B) = 0

W(7A) 1= > 1 . W(A)=0 O: W(A)=1

AIB AVB ANB 1A COO CO A A CO A O O CO A A A A O O CO A

Reitaldy Willigh Not, Sofs herben A N (78 VC) S Aussugue mid 118/11 7181 Konnadia Reduisiv annaitabar

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2.2.2 Imposedir und Aguiralen zen

Wenn dann D. D. €

Ab Sir carpen

4 Aberituge soid medig + John His de Aussugen

" A implicited B" " outs A forth B A = 7 B

n A and sound a quina but

M A gelt, govern dam, menn B grell "

1 , W(B)=W(B) oden h/(B)=1 Λ , $\mathcal{N}(\mathbb{R}) = \mathcal{N}(\mathcal{B})$ Sough ~ (A <=> A) == W (A=>B) == Be dead ung.

Zwenh Rosfif W(A)= 1 wohr bedonlif nill A=>8 | A <=>B A = 01 abello