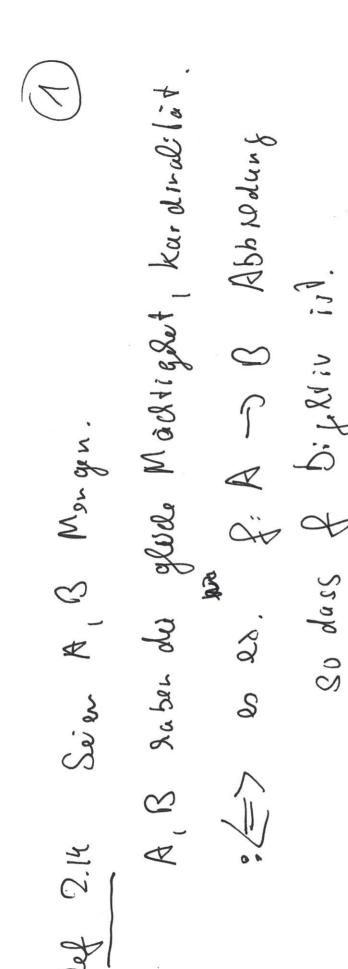
Symmetrisa Va, 56 Ms (aR5=> bRa antisymm. Va, 5 EM: (aRbnbRa=> a=b) -(aRb r bRc => aRc) Motivation dation reflexiv VaEM: aRa Herte u.a. Transitiv DalbicEM: V a, a + A: ({(a)= ((a') =) α=α' igenschaften i Relationen und Abbiodungen AP(B, JacA: fa)= b ing shiv and surgeton Relation out M Abbildurg STY 3 in jehliv Surkliv Difalir



in aleal middiz

5. 6.

Wio sur des be uneukleder Marzn 2

f Abb.

62

P n. surphlis (n. inguis Sill Jan € . (R -> 1R (x) = x²

(ISP)

ing: Recos (18) = f(81) dan gild x=x' (dise Delublin 20gr) 1. Surgettientat Se V=2: i6 Mo &(x)=2(x-1)=2i (=> X=i+1 ell Surj.: YY6Y 2x, xex M= 20,2,4,6,8,10,-- 3= 32.i (ie/ho} タ(x)=> BonesdochiR; Jry Air Surgelin P(8) = 2(8-1) Bigation! 4: IN -> M Bizzlion V Y C X X

 $\delta_{1}\delta' \in IN \quad \mathcal{Z}(\dot{s}) = \mathcal{Z}(\dot{s}' - 1) = 2(\dot{s}' - 1)$

2. Jugardinidad

 $f(x) = \frac{b-x}{b-a}$ 5, a e [R [10] C [9] + 67 a

Pist Bigadiv

1. Surpedivilèt

 $g(x) = \frac{b-x}{b-a} = \sqrt{\langle b \rangle} \ \gamma(b-a) = b-x$ $cod \theta = \sqrt{\langle b \rangle} \ x = b - \gamma(b-a)$ $cod \theta = \sqrt{\langle b \rangle} \ x = b - \gamma(b-a)$ $cod \theta = \sqrt{\langle b \rangle} \ x = b - \gamma(b-a)$ So: YE [O,1] bu.

2 Ing Bound of

(Selbst problem)

(Steidheidliget ra [a,6] ud [c,d]

(granuso)

9: 1R² -> 1R

イト×ー(ハ×)か

n. ing Uiv 311=2+2 (8,1) = (2,2) Surpling X=0,4 bw.

 $\gamma(x) = (x'-x)$ 4:1R -> 1R2

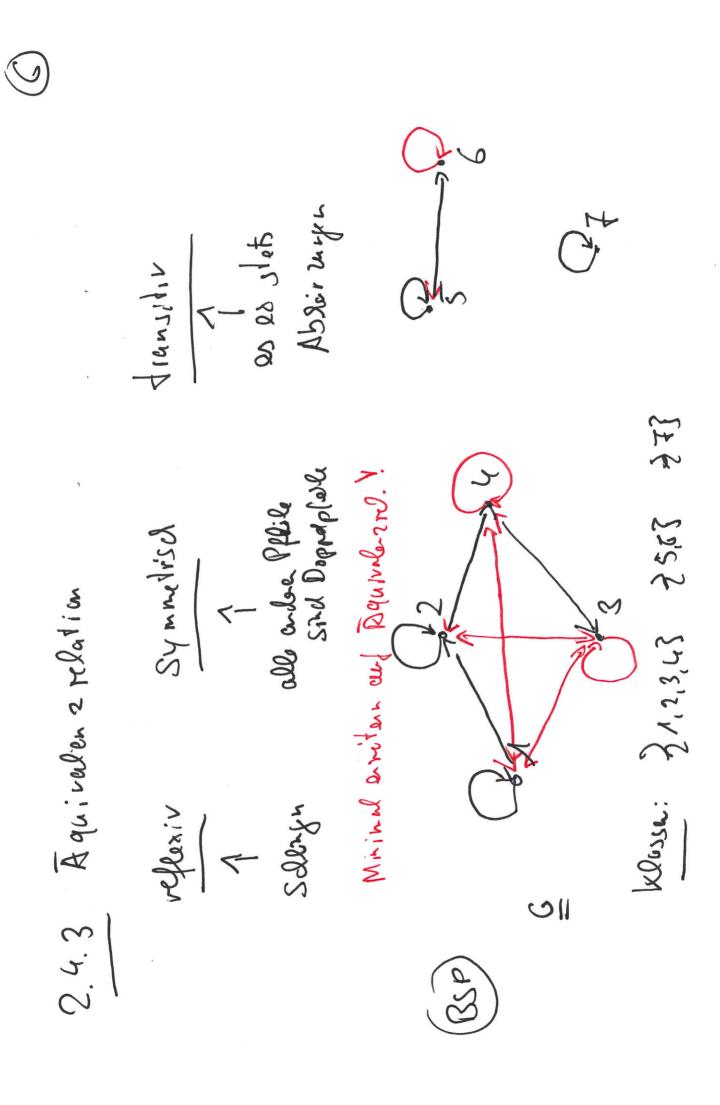
大-x (シ (トー)ー(x-x) ~~~ n. Surphilir (0,7) with will getreffen

P. P(m) ->P(m) AI-> MIA

Misd Mork

Bix Mie L

(BSP)



Definition 2.15 Sei R Aquiralar relation out M

Tir a6 M definiaen wir

IIa II := 266 M 16Ra 3

Aguivalors Slassa von a Seriplea R. Wier heißt

[[o]] = } --,-4,-2,0,2,4,6,-- } = [[28] 1721 = 3 1,2,3,43 = 113116 Reprise North

[1/1] = 2--5-7/1/3,5,7--3 = 1/2 STI

Sarbune, 28, 0, 1

Disyneth Varinguy den Aquirelanslona agist MV	2.16 Se R Aquiraborardation oug M. Dans a.R. Table My Malle I Italia	I M = U II all	1 Solwales	4	Def. III CRa
Dis yn lle Va	Seorem 2,16		Bo wws:	2	

=> CRB N BRa => CRa => CE [La]! bishierhor drams. Org IIII 615 hierber CRON NORB => CRS Socillell = , cR5 Dry. II II akb => bra ج رل م

P

a R Gen indirect I all O I bill + d 2 Fwee: NA N

=> CRGKCR5 => QRCNCR5=> QRS d'ILTI DévILTI QUI CRUJ =>] c mit cellall und cellall

-> Mallollall -

17400,2700 => Set. I

bRb => be [[bi] => be () Und ITalle M nad Def. => beMA Def. U se Rall für mind on 96 M Deg. [[]] Dedselige J. Missa. My be U Pall "C" SG M I M I U GEM (=1

Interesort Koissen, Arithrelismit Koussen! nf 1/ nz,2

i i se out 2

O5 put sind Klasson V 2/n.2 " Rost Alassen My Goa 2 module n

Zn = Z/n.z = 3 IIOII (BI) (BI) (III) -- (In-1) } = 20, 1, 2, 5, ... (n-1)

 $\frac{0}{\lambda} = \frac{\lambda}{\lambda} - \frac{1}{10}, \frac{1}$

A Hithmedia

Definition 2.17

Seinfill be Bicky; Betrudt Zz

Addition modulon;

Or: Zh x Zh _ Zh

A, B & Zn A = [Ia] B= [Ib] a, 56 30, 1,.., 14-13

S.S.

Schrebmir A G. B

(A, (B):= [[a+5][

Muldiplassifice modellot: Sh: Zr x Zr - Zh

ABG2L A= IIaII B= [[5]1 a,6630,1,- wan3

4 Wohade Pourty ? 17G. D[= (0'V) 18

(

Z

 $\frac{\mathbb{I}(\alpha, 5)\mathbb{I}}{\mathbb{I}(\alpha, 5)\mathbb{I}} = \frac{\mathbb{I}(\alpha, 15)\mathbb{I}}{\mathbb{I}(\alpha, 15)\mathbb{I}}$ und seien a,a, b,b, 6 2
mit Mail = IIaiI IIbil = IIbiI Se'n6 IN belieb. S. Dann gill: 1800MM 2.18

Borison

1 Q D. a Kirre. 5 5 5.5 Rationale Zahleer ("Selsst" definit a,562, 570 { Aguirabur medation;

| a.d + c.5 | [] a.b. [] = [a.b.] 1 b.d brokede finie, d' (Unabhaing; von Représe laten Muetiplisation Addition Keesse Sey. 1311 = 1121 1 4 E