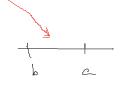
2023. március 21. 16:53

RELACIOTULAJDONSAGOK	(A alaphelmaz,	Rreldoib)
----------------------	----------------	-----------

· DICHOTOM : falber (alb) ER V (bla) ER

pl. 5, R-en



2 elem minetig 55 Stehasonlithett

a = 6

. TRICHOTOM: Ya, bEA! . a=b

· (a,b)-cR

. (b, a) ER közel poutosan A teljesüd

Later (a,b) XOR (b,a) ER

ha a=6 IRRETLEXÍV

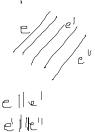
TILOS

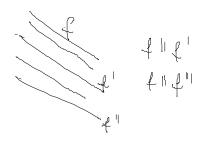
Megj. 1. R stimm X Romantistimen GYAKDRLATON!

Meyj. 2. Rrefl. => Rrem irreflexive Rirrefl. => Rrem refl.

## EKVIVALENCIAR ELA CIOK

71. ellf





mi a lotog Sol parhagames eggenester? - meredelisez -> iranguk

-> Stileteri er

Pl. 2. 1 egzidosul" = atous erben saülettelz y liotos pllemão"

Def. EKVIVALENCIARELAZIÓ (EKV. REL.) Eggs A alaphalmason R relicit cherch i he one lexin

- Betmureticky - transitiv.

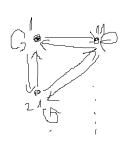
**P**. Z = "

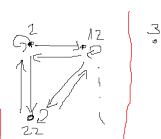
Th. 2 ( (x, y) | x-y out that 10-21 ]=: R pl. (7,17) ER (143,13) ER (12, -8) ER (13, 17) & R

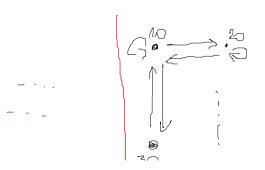
Refl.: Vxe Z: x-x=0 onthats 10-zel

Saine. he  $x,y \in \mathbb{Z}$ : x-y such to to-zel:  $y-x = -(x-y) \cdot f(y,x) \in \mathbb{R}$   $(x,y) \in \mathbb{R}$ 

1 Közös tulajalous Lg": 10-zel vett osatari-maradel







21/5

Def. Ostalzotas v. particionales

Egs Halephalmaz oosthystera ego O halmarrendszer, welige: /lrotto/

· clemei parousint dissignant remisses holmator

\* U D = H

Megi- Mindon eterivalencianellaid contalgossa at alaphalmatt.

0 = { {1,21,--} } {2,12,22,--} , --- } {10,20,---} elöbbi polda

All: H tetra- alaphalmat, R elv. rel. H-n. Eller

R meghatinos eg estalyfelboutast.

Az azono motabytran levo clemes nel-ban allual

kirlorebook vitalfran leve elenge nem.

Mega. Rel santaba helyett megadhat ink at arthlyfelboutast.

· Mirden elv. rel.

Pl. . 11 eggeneser: meredorseg (irdayor)

Flolo: [x]:= {ye H (x, y) e R} , the value x-sol rel-ban blin x bandañ

Diz | kell. O: = {[X] | x = H] ezy metalyfello utas

tell: . [x] nemines: x E[x] , ment R reflexiv /

\* UO = V[x] = H : kell. Hx EH - no ] [] : XE[] pl. xe[x]

· paroubent distinter

[x]n[z] + & lebet, de allor [x] = [z]

TILOS

kell

If, vom nuiver metast.

J264: Z6[x] 1 ZE[y] (XZ) ER (YZ) ER 1 Stimm (2) x) = R (x,Z) ER / (z,y) ER => (x,y) ER trant. xe(z) Logien w = [x] thortages  $(x,w) \in \mathbb{R}$   $(x,y) \in \mathbb{R}$   $(x,y) \in \mathbb{R}$ Telet & [x]-beli benneran [y]-ban Forditua naggenest: [y] [x] => [x] = [y] All Ha H-n O'ssettlyotas, allor 11 egg vottalfran van vell "relació eler-vel. R = { (xn) | 3 A & O . xn & A] Biz. Kell: refl.

tranz. H.F.

## RÉSZBENRENDEZÉS

70, <u>{</u> <u>C</u> <u>(</u> ostloje "(N)

Def. Egot alaphabuaron R relació restrumendares, ha

- · reflexin
- · antironium.
- 8 transitu,

9 R. S. asa

a = 6 1 6 5 a = 5 a = 6

2 8 6 1 b 2 c = ) 2 5 c

" isselvesorlitjul at demelet, kiesik, wagen "

11 25-40/2011

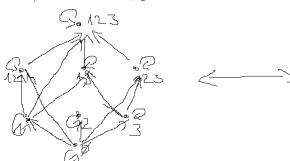
Pl. H= P({1,2,3}) | hatteryhalmat/

= { Ø, {1}, {2}, {3}, {3}, {3}, {2,3}, {1,2,3}}

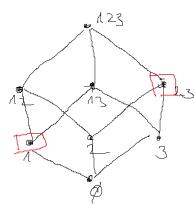
Relicio: =

trant. Restensenderts /

Relaciograf: [] elhagyful



HASSE-DIAGRAM



- a hurold ring
- . rigil helpett vousl
- e transitivitisted bir. nem

Def. Ha H-n R restemenderes

(H.R): restemenderett halmat (R.R.H.)

Def. He H-n K restermenderett halmet (R.R.H.)

R.R.H.)

Ref. Signal Lance (R.R.H.)

Ref. Signal Lance (R.R.H.)