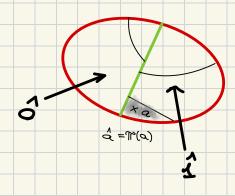
: showex

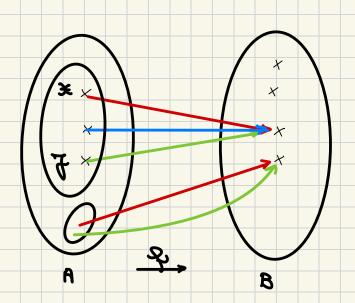
1) Relatia de congruenta madula 2 re Z:

$$x_3 = 2$$
  $x_4 = 3$   $x_5 = 3$   $x_6 = 3$   $x_6$ 



2) Z: A-B Junctie

As strederibe de sitales qu



A sprobaritas de satisfact o 9 sit  $T: A \rightarrow A/_{\sim}$  $A \ni \varphi(V), \varphi = (\varphi) \Upsilon$ anitajour M N- praiectio camanica pe multimea factor Observatie! ~ m = P スロモ (ニ) 作= 来 (コ) (ア) 川 (モ) ガ (ニ) チャカ a statilarevinu de astatairara? : amorast multimie Jactor Fie P a relatie de serindenta re multimea A si M:A - A p resiectio comonica A The Alg. 3 23 Atunci pentru orice multime B si gunstie g: A - B ester ancat P = Ng istrixe [ (4) f= (#) f c= f 2 x isto sas mica Smetie 2: 410 - B ventre cose 2 T = 2. is g~= a i= anitajni stre g, eng nt anitesper stre & => anitesper stre &

Befinition  $\xi: A/_{p} \rightarrow B$  prior  $\xi(a) = \xi(a)$ , pt. orice a  $\in A$ Befinition exte corrector (mu depinde de representante)

a Des m Dasa):

? (DJ=(D) & ismuto, D= 2 asale

(18) f= (0) f < === 18 = 18 = 10 = 2 (18)

Thei,  $(\bar{q}\pi)(a) = \bar{q}(\pi(a)) = \bar{q}(a) = \bar{q}(a)$  rentru orice  $a \in R$ , adica  $\bar{q}\pi = \bar{q}$ 

Unicitatea Dui J:

Doca J: Ap -B este a Otta Junctie pantre core

 $(\mathcal{Z}_{\mathcal{A}})(a) = \mathcal{Z}(a), (\forall) a \in A$ 

 $\underline{Z}(\underline{a}) = \underline{Z}(\underline{a}) = \underline{Z}(\underline{a})$ ,  $\underline{A}) = \underline{A}$ 

3 = 2

\$ injectina (=) P = ~ p

ig sol er a saire. 2009 ajel mitz :"(=1).

The  $(x,y) \in (x,y)$  site  $(x,y) \in (x,y) \in (x,y)$  with  $(x,y) \in (x,y) \in (x,y)$ 

(=, b((03)) = f((6,9)) (=, (03)) ~b(c,9)

$$f = \pi f =$$

Enitsjær Z

$$m = \begin{cases} f((m,d)), daca m > 0 \\ f((0,-m)), daca m < 0 \end{cases}$$

Exercitin:

Z×Z\*, s

Q ~ \$\frac{1}{2} \times \text{ if intersection of sixalor a ismatiff.

Relatii de ordine

etaler m. a abiver emitlum e en sitaler O: felle anititate ele anititate ele ... asistemicitae ig

De Dricei, avem mototia <.

$$a \leq a$$
,  $a$ ,  $a$  arice  $a \in A$   
 $a \leq a$ ,  $a \leq c = a \leq c$   
 $a \leq a$   $a$   $a \leq a = a \leq a$ 

Relatie de ordine ~ relatie de ordine partiala (poset)

- so Saitgrag war ) atamatico emitlum .m. x (≥, A) (atamato

sira wither asab atamatre latat stre (≥, A) D> il war il≥ o mouro A3 il, o

Example:

1)  $(N, \leq)$ ,  $(Z, \leq)$ ,  $(R, \leq)$  total evaluate sleuter as =

starobre latest un rab, atamakre smitfum? (1,41) (s (iles edivide le o) ast=elus M3se (E) (=>elle (I,I) me este ordonatio

= : elle este entisimetrică.

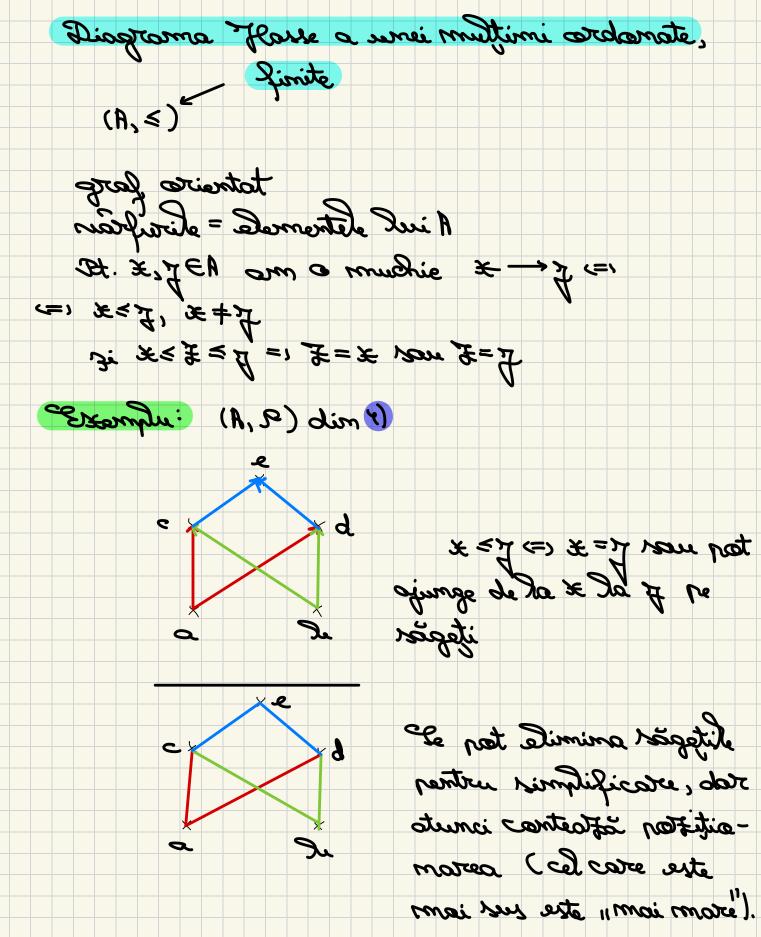
3) X multime

(P(X), C) multime ordanata (C), (X)C)

Rest tatal ordanata <> X ore & mult un Insmed

(P) A = { a, h, c, d, e} p= \$(a,a), (2,2), (c,c), (d,d), (e,e), (a,c), (a,d), (a,e), (De,d), (De,d), (De,e), (9,2)

( estatie de ordine pe A ( estacitie)



## Demente Meciale

catarabra emitjum (>, A)

- iam les mer 1 int la minim .m. 1 A 30 sirée intreg x > p éaste (A int la tramale sim
- iam Co was) A int Co mixam. m. 1 A 3 D sira wither D>X asab (1 int Co tromal same A 3 X

Example:

1) CEX. dim (1):

minim strize we

e= mixable

Le = Saminima stramale

a : Comixcans tramed?

stremele strike un är staan 2° (1 !sitawarde

Demente minimale, Demente

- themed a c= (mixiam) minim a (s)

  staine sta, (lamixam) laminim

  lateraminim (mixam) asale
- a , (mixam) minim atisse asal
- stremel is see catinif millem 0 (E) minimale is saminimale.
- 2) (M, ≤) minim O minim (≥, M) (si iset) slomixtam stam (mixtam isim
- 3) (M\*, 1) cominim 1

  row are Demente marximale a/2a

  0 + 2a
- (N\*1817, 1) ale ptime see un (1, 2181\*M) (p)

   see minim see un 

   see minimale: teat mume
   see matural prime
- $(\mathcal{P}(X), \subset)$  minim  $(\mathcal{P}(X), \mathcal{P}(X))$
- ier laminim ste tramed sirco (AD, A) (3)

Def: Fie  $(A, \leq)$  is  $(B, \leq)$  rowltimi ordenate. O Simplify A = A = A. M. morfilm do multimi cordenate (some functio createsto) daca pentre orice  $X, Y \in A$ , ce  $X \leq Y$ , over  $X(X) \leq X(Y)$ .

Non mostism g:A - B 1.m. isomorfism

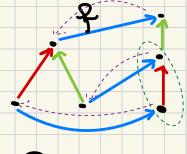
de multimi ordonate daca existà un

mostism de multimi ordonate g:B - A

pentre care gol=1A Bi fol=1B.

miltomesti me strisse saab epomesti milsomesti me strisse saab epomesti de miltom estamate g: A - B.

imitlum at mailromazii B - A: f (1) (sitaward unitaejil fe etamatra un eras uitaejil muifrom nu (E) (6) muifromazii etre



meiframazii ste un stre um - f = p meifram

عصى ريند

3) Boca A zi B sunt itamorfe, De ou osdeozi praprietati.

Exercitii: Edamabra Cotat 8 = Standara Cotat A (i) streamale so B (=) elamizam streamale soo A (ii) Lamiscom meriframasii 8 - A: g themasa (a) g => Camisram themasa A> s Camisram