RELACISE Binorna relauja poredal litan Relacija  $\xi$  ma skupu A je neprasau skup Kartesijevog podskupa  $A \times A$  \*  $\left[ a \times A \left( (x,y) \times e A, y = A \right) \right]$ IXSY S C A XA also ye (x, y) & g ouda buzons "x u relauji s s y" => 12adaycmo Ma 3 Macina: A = {a,b,c,d} graficiem Mabrajayem clemenata zcolanayem wzete prilosom 1,= { (AA) (BB) (CC), DD} S2= 1 (x, y1) X € Ay

relacife (S): =  $\angle$  <br/>  $\times$  - y reporan ili pavan<br/>  $\times$  > pavin <br/>  $\times$  - y dycylia o m (m  $\ge$  2)<br/>  $\times$  dyeldely od y (ili obrnuto)

g= { (x,y) ∈ Z× Z; x=y } jednakost marye di jèduato S= d(xy) ∈ Z×Z; x ≤ y y J= {(x,y) ∈ Z×Z; x < y} vele ili jiduako f= { (x,y) ∈ 2 x ≥ y } stroge velle J= { (x,y) € Z ×Z; x>y} x-y parmo J= { (x,y) ∈ # × # ,2|x-y 4 X-y djeljivo s m (m≥2) f= {(x,y) ∈ Z×Z; m/x-y} f= { (x,y) € Z × Z; x ly) y dyeljiv o x EKUIVALENCIJE PARCIJA LNO A PORETKA NEFLEKSIVNA \*x & \* , x g x

2) SIMETRIČNA: Vx,y EA, XSy => ySX

(3) ANTISIMERIČNA: Y, y EA, XSY ~ Y / X => x=y

FRANZITIVNA: Xx,y EA, XPy A YPZ => XPZ

relacija etnivalancije

relacija parcijalnoj porette

Zacratal inversing fija:

(1) 
$$f(x) = \sqrt{2x+5}$$

(2) July i  $D(x) = \frac{1}{2}$ 

(3)

$$2 \times +5 \ge 0$$

$$4 \ge \frac{-5}{2}$$

$$4 = \left(\frac{-5}{2}, \infty\right)$$

$$\begin{array}{ccc}
X \ge \frac{-5}{2} \\
& & \\
& & \\
\end{array}$$

$$\begin{array}{cccc}
y^2 = 2x + 5 \\
2x = y^2 - 5 / 2 \\
& & \\
\end{array}$$

$$\begin{array}{ccccc}
& & \\
& & \\
\end{array}$$

$$2) \neq (x) = \frac{1}{x+1}$$

In the Rison

$$\frac{1}{x_{1}-1} = \frac{1}{x_{2}-1}$$

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$$\frac{1}{x_{2}-1} \in \mathbb{R} \setminus \{0\}$$

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Y = X 2 W

$$y = \sqrt{2 \times t5}$$

$$y^{2} - 2x + 5$$

$$2x = y^{2} - 5/2$$

$$x = y^{\frac{1}{2} - 5}$$

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$$y = y^{\frac{1}{2} - 5}$$

$$f(y) = \frac{y^2 - 5}{2}$$

$$f'(x) = \frac{x^2 - 5}{2}$$

$$f(y) = \frac{1}{2}$$

$$f'(x) = \frac{x^2 - 5}{2}$$

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$$f: \mathbb{R} \setminus Lig \longrightarrow \mathbb{R} \text{ for}$$

$$f(x) = \frac{1}{x-1} \text{ the lighting}$$

$$y = \frac{1}{x-1} \quad \begin{cases} x = \frac{1+y}{y} \\ y = \frac{1}{x-1} \end{cases}$$

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