Koma mercelu zueno N-ectecilem zuen. Constane, le 0 \$1N 6+x=b -> 2 - yenne zuena ax=b -> Q -> paynomannie zuenn nomen gu romecen - 2, a - Vm, n E 2 e, II - ne momen commica

Iva Enlave ha gygo (and - 9 /R 1R - porguemen a reporquemente R-apred purm u spone gegensten (copin in tronumore a prynonome coef.

ET - Tpinay.

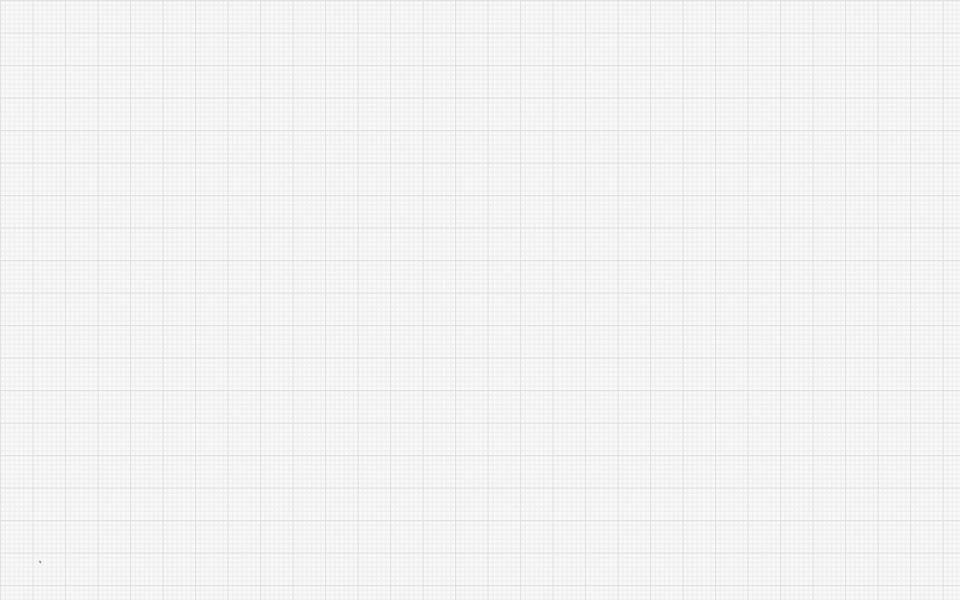
BR X^2+1=0 H.P. Ag(i) i f. g. For.

TEpam C - KOMINT- ENCHO Exome

- cropagner R

- yputn. X²+1=0 una pm. -9 i= V-1

- non and a comand - +,-,o,/



N-2-2-2R-2 Q(v2) = 3 a + 5 v2 ( a, 6 € Q) XY - MHOUSEGO XXY = \frac{1}{xy/|xcX,ycY| - gencaprolo

ropegum glorisca

Toursbeggeme son

XuY 300.  $\{1,2,2,37=\{1,2,39=\{3,2,1\}$ hopegen n-oper (a, a2, --, an)  $X \times Y \times Z = \{(x, y, z) \mid x \in X, y \in Y, z \in Z^{3}\}$ 

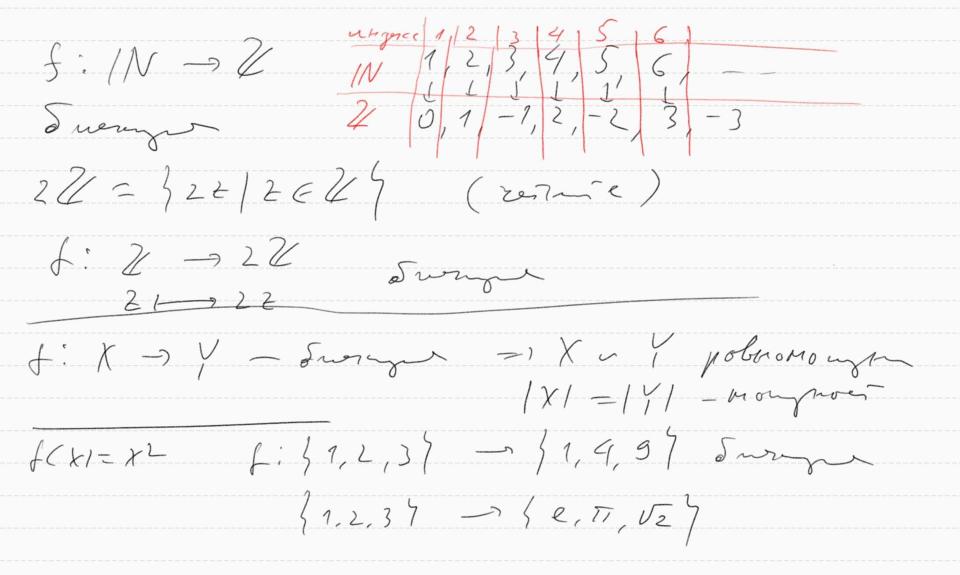
$$(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$$
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Y, z \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in X, y \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in Z\}$ 
 $(X \times Y) \times Z = \{(x,y), Z\} | x \in Z\}$ 
 $(X \times Y) \times Z = Z$ 
 $(X$ 

Cera DO = X

yvoque = f: X -> Y X -> Y = f(x) y (x, y / x > X  $f(x, f(x)) \mid x \in X$ RCXXY pegagne (x,y/ER -> xRy 305-Reyofre en f; X -> Y (2) 1) FXEX JyEY: XRY 2/ XRy ~ xRy2 => 4=42

Menci veria fix -> 1 X1 (1) X2 (1) Y  $- f(X_1) = f(X_2) = 0 X_1 = X_2$  $\int_{-\infty}^{\infty} -X_1 + X_2 = \int_{-\infty}^{\infty} f(X_1) + f(X_2)$ - X, Ry - X, Ry => X, = X - +y 6 4 3 x 6 x : f(x)=y x y - Sueverilium = uneverilium + chopergrubium

Tr- f(x1=x2 : 1R, = 3 r ER 1 v ≥ 09 pe e overs- ; bre e cropens. f:IR -> IR :  $|R_1 \to |R|$  uners: j'he e croperes.  $(f(x_1)=f(x_2)=x_1^2=x_2^2=x_2^2=x_1=x_1=x_1=x_1)$ f: 12, -> 12 f: 1R - 1R, pel e uneros, croperos.  $f(\sqrt{y}) = y$ ( + y = /R, Sures ulmo f: 1R, - 1R,



28(
$$\chi$$
:  $\chi \rightarrow \chi$  ugens  $\chi$ :  $\chi$ 
 $f: \chi \rightarrow \chi$ 
 $g: \chi \rightarrow \chi$ 

Dit Keren f. X -7 Y. Eynerger fæ objorrera, onco fg: Y -> X : fog=idy u gof=idx Ty- f: 1R, -1R, ; f(x) = x2  $g: \mathbb{R}_1 \longrightarrow \mathbb{R}_2$   $g(X) = \mathcal{F}_X$  $(f \circ g)(x) = f(g(x)) = f(Vx) = |Vx| = x - f \circ g = id_{R_1}$   $(g \circ f)(x) = g(x^2) = Vx^2 = x - g \circ f = id_{R_1}$ European ott ega yor & X :- g &" Lrycx J. XryCX => F: XxX -> X (xy/ Lixy

305. " " que e Svragne 1/0 \$ u e Surapur 6 12/07 Cl- Co (c weren) - Iconyou rulences - tx, y EX xxy=yxx = ocognorven - KK, g 2 EX (xxy)xt=xx(yx2) 3008. Mome go a gore, a 30 conjunction ottepa your cooding person zersend, s.e. prynosti e egun vong -- Touten

Tp (axb) x (cxd); ((axb) x c) x d  $a_{p-}(x^{y})^{2} = x^{y}^{2} + x^{y}^{2}$ Mpagomene on C-Ca - un v seensponen (egonnéen) enement &, oren HXCX XXe=X=exX + 6 /R Tp. 1/0 30 · 6 1R 2) 1 20

16. fleggjonnes en (our F) e equicolers D-60 Henr C', E' ca belys form en. 3 on D e' x e'' = { e'' (e' e uerpporen; x = e'') -re'=e''

le' (e'' e (qeyporen; x = e') Duy de-Cu - Heren & e Sunopun ottep. C kongronen en e bosserre, Te XEX e odporun, our JyEX. xy = yx = eThe 11 RC + -3 + con opporum y=-X

2/1Rc - - HSs @ ca sporm y = = = x-1 Tl. & R ocoy u c leeyp. en . Toule vou XEX e de porm, To Fegure Gem y EX; XSJ = YXX = e D-Co Kencer X, y', g'': xg'=g'xx = xy"= y"xx = e  $y' \times (x + y'') = y' \times e = y'$   $(y' \times x) \times y'' = e \times y'' - y''$ un X u Seremen ( X-1 Touler so posen

35. f.g.h- urop. (fog).h=fo(g.h) f-65,00000 (f: X -> Y), and Sg: Y-> X: |fog=idx Te. 4 f: X -> Y => foidx = f widy of = f  $(f:X\to Y, id_X:X\to X=) foid_X:X\to Y=)$   $YY\in X \quad (foid_X)(x)=f(id_X(x))=f(x)=f(x)$  $3n\sqrt{3}. \quad X = Y = 27$   $|\forall x \in X = 27 \times 64 \iff X \subseteq Y$   $|\forall y \in Y = 27 \text{ y } \in X \iff X \subseteq X$ 

Te tra f: X of osporono u g: Y o X: | fog'=id x  $g'': Y \rightarrow X : | f \circ g'' = i d_X$   $f \circ f = i d_X$   $f \circ g' = g''$ D-6 (g', g": Y → X)  $g'\circ(f\circ g'') = g'\circ i\delta y = g' = g'' = g''$   $(g'\circ f)\circ g'' = i\delta x\circ g'' = g''$ 300 Men f: x-1/5 jonno, 50 F. j; d-> x: /fog=idx g - o Sportes per f ; Senemen c f -1

$$f - Svenge \iff f - osponeno$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 1 ; Y \to X$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 2 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial G_0}{\partial G_0}(=) ? 3 ; Y = f(X)$$

$$\frac{\partial$$

Teopens f: X -> Y

- 
$$y \in Y'$$
;  $x := s^{-1}(y) = \int f(x) = y$   
=> croppers.  
 $f: X \to Y \to R_1 \subseteq X \times Y$   
 $R_1 = \int (x, f(x)) | x \in X /$   
(And  $R \subseteq X \times Y'$ , to  $R^{-1} = \{(y, x) | (x, y) \in R_1 \subseteq Y \times X'\}$ 

Acco  $R_{\xi}^{-1}$  e wropp. To  $R_{\xi}^{-1} = R_{\xi^{-1}} \iff f^{-1}$   $R \subseteq X \times X \quad (perage)$   $(x,y) \in R \iff x \neq y$ 

Cl. 60/ ge burng - YXEX XRX - pet percubra - Hx, y EX = x Ry => y Rx - currespuence - tx, y, 2 EX of x Ry u y RZ = 1 x RZ - Monsuirline - tx,y ex xRy un y Rx - trycx: x Ryn g Rx = x=y Our Penague na enchelometrihoci e peppercular ,

une pour ou montre les peperculars , 08 mysokerso 7 min x - 7

X- polimen (Muora. of 5- B john.) X=XXX ( nocorem of com (A,B) = AB ABNCD (=) ygrop gen, cyolar o genamme (encludemental) - jobstie-) v vocarer ne ppar yer per cyclulonement X=Zx(Z\104)= f(0,5) (0,6 - Z, 6 +0) (6,6)~ (c,d) (=) ad=bc conso e Jorgo?)

On [x] = x = gex (x-y) - knoe ku encluboreronistives (~ pro. 1-m exemb. e X) copequation 1 Te 1/x Ex 2) y ∈ x = 1 y - x 3/ X + 9 (=) X pg = \$ 3/ -1 Dla kroen ha erl. um velnoget, um pe a Tpe wir. I viela Morare ator Le portrogre les tegrecerons ce knocole har archilonemia oci

(6) x-y-y-x=x

The X- toe. of. & john.; ~ [AB] [ED] [A'D'] Anonor. J. [AB] Te X - Zx (21309) (0,51 ~ (c, 8/12) od=be E (0/37) = 5

 $\underline{Dip}$  X',  $X = UX_i$ ,  $X_i \subseteq X$  - possible in X, or Ctitj Xinxj-p Tesporo 11 ~ e PE & X = ) ~ ge pormer possible (- X = U [xi] Xi - Mages o hitem har posmernate beige arong a knoedle har end. 2/X=UXi e possuem, ro e penager (me encle. 305. 11 v 21 ca esavarios osparion

0 mg. 1/6 c Longran sieg. \* e upgna, orco - 4 e ocorproren (4a, b, C - 6 (0x6/x C=6x6(6xC)) - \* una temp. on. e ( HUEG axe=exo=a) - Ban en e odporum (Hack ForEGiasor =  $=\sigma'*\sigma=e)$ Arco bab GG or kb = b + o, G ce begure a osenela (Kongszorbria zppa) 2) R c dompn of ep. t, o e tipo cien, akol - (R, t) - oden. 2 pynn - « « acorquet ulon - gus prodysukuver:  $\forall v,b,c\in R$  o(b+c)=ob+oc (a+b)c=oc+bc