$\beta^{4} = \{(2,1),(3,1)(3,2)\} \subseteq \emptyset$ C= S(M), (2,1), (3,1) (3,2) 3 P E = } (2,1), (3,1), (1,2),3 F = \ (1,1), (2,1), (3,1), (2,2), (2,3)) G=G R'CS' ORCS : 13 1/2 RCS => MR1c51, 10:15 (x,y) ER 1 Je 1200 (x,y) = 5 (7,x) ER N (9,x) E.51 $(R \cap S)^1 = R^1 \cap S^1$ (x,y) e (Rns) be (y,x) &(RAS) $(y,x) \in \mathbb{R} \wedge (y,x) \in S$ $(x,y) \in \mathbb{R}^{2} \wedge (x,y) \in S^{2}$ $(x,y) \in \mathbb{R}^{2} \wedge S^{2}$ $(x,y) \in \mathbb{R}^{2} \wedge S^{2}$ (RNS) = RNS

(RNS) = R' NS

P CS => RCS P (6 11)

(Rus) = R Us 1 1B (x,y) = (RUS) be (y,x) & RUS (y,x) ep v (y,x) es (17) ER1 & (x,y) ES1 $(x,y) \in \mathbb{R}^{3} \cup \mathbb{S}^{3}$ (RUS) = 12 1/VS) (RUS) = R US (R)=R :53 $(x) \in (R^{-1})^{1} \qquad (y) \in R^{-1}$ (X,7) E R (R1) = R (R) = R.

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T general is show igal forcer . YOUNG FOR RARY (x,y) ER DR-1 Cropbe G.x) ERTA(y,x) &R V(y,x) &RA(y,x) $(x,y) \in R \otimes (x,y) \in R^1$ (y,x) & R & R & R & R ^1 $(x,y)\in R$ $\Lambda(x,y)\notin K^{\Lambda}$ $V(x,y)\notin R$ $\Lambda(x,y)\in R^{\Lambda}$

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eris el CUL MUSI $a-b=z\in z$ $b-a=-z\in z$ $(b,a)\in \beta$ orphey My : 4000

willy be by a greadle of which area of the (n=n=n-sle ato pla '7tn=15-le... 1 1/2 a(0 plc) a.a>0 υ α, ~ a CG/10-2, =5 a,b & ye' 1000 (ab) (\$ 5 N) a.b>0 6,0>0 (b,a)Es 5= 7 CNO a,b; c & A >178 i'r Gro (ab) f & A (b, c) ESE M a. 1 > 0 $(a,c) \in S$ 576y,0

- 15 NO 1717 DE P'87C P'78-N Se -4/5 2 $(a,b) \sim (a,b)$ רבל לכידי לביד a,b,c,d $\in N$ iperothese is C_{no} ((e,b),(c,d)) $\in T$ elinish 9,6,c,dre,fen gri hogy '7:65176 (a,b)(c,b) ET / (c,b), (ef) ET i Prinill erb=c+b

c+b=e+f $a^{1}b_{+}(4e^{+}k^{+}+e^{+}f^{-})^{1}$ which and $a_{+}b_{-}=e^{+}f^{-}$ $(a_{1}b),(e,f))\in T$ T= Noge on'

 $\left\{ (1,3)(3,1)(3,6)(6,3)(5,2)(2,5) \right\}$ $\left\{ (1,3)(3,6)(5,2) (1,1)(2,2) (3,3)(44)(5,5)(6,6) \right\}$ $\left\{ (1,3)(3,6)(4,6)(5,2) \right\}$ $\left\{ (1,3)(3,6)(4,6)(5,2) \right\}$ $\left\{ (1,3)(3,6)(4,6)(5,2) \right\}$ $\left\{ (1,3)(3,4)(3,6)(6,3)(5,2) (2,5)(1,6)(6,4)(5,5)(2,2)(6,6)(4,4)(3,3) \right\} \right\}$ $\left\{ (1,1)(2,2)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(5,2)(1,5) \right\}$ $\left\{ (1,1)(2,3)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(5,2)(1,5) \right\}$ $\left\{ (1,1)(2,2)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(1,6)(5,2)(2,5)(6,4)(6,3)(3,1) \right\}$ $\left\{ (1,1)(2,2)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(5,2)(1,6)(5,2)(2,5)(6,4)(6,3)(3,1) \right\}$ $\left\{ (1,1)(2,2)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(5,2)(1,6)(5,2)(2,5)(6,4)(6,3)(3,1) \right\}$ $\left\{ (1,1)(2,2)(3,3)(4,4)(5,5)(6,6)(1,3)(3,6)(5,2)(1,6)(5,2)(2,5)(6,4)(6,3)(3,1) \right\}$

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(1,6)(3,3) & (3,1)(6,3)(2,5)(6,6) \\
(1,6)(3,3) & (3,1)(6,3)(2,5)(6,6) \\
(1,1)(2,2)(3,3)(3,6)(5,5)(6,6) \\
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\end{pmatrix}$

[4] = 1,2,3,6 [3] = 1,2,3,5,6 [2] = 1,2,3,5,6 [3] = 1,2,3,6 [4] = 4

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ادا صهرور دیال در کام د rilipe or kin pli Mibe ou. sinv kin muis ou,

R={a,b),(c,d) | a < c, b < d} A=ZXZ 32 (a,b),(c,d) | a < c, b < d} A=ZXZ 32 (a,b),(c,d) & in one or off acc 1 bed 0 = A = b 0 =B JOHN BY (a,b),(c,l)∈R ∧ (c,l),(e,f)∈R 1 (CAL) 1.5.0721 aschbed clender >> Le ase Abs F $(a,b), (e,f) \in R$ $R \rightarrow r \cdot r \cdot \sigma_{S} r^{O}$ (a,b) (A yll ny) l'ropton
ata Ab=b
asa Absb (a,b), $(a,b) \in R$ y (C) y 6. 2, follow kin as on po

R= {a,b), (cd) | a/c 1/c(a=c,b/d)} (a,b),(c,d)ER ejet my) ", Ono ofte acc V (a=cnbsd) (a=c)16≥b) <>a " d>6 = 5 \ d=6 \ \ a=c $(c,b),(a,b)\notin R$ (a,c),(a,c) & R 1, Gro. Ojk R 17 Cro-OJE R 1000 GK R $(a,b),(c,b)\in R$ \land $(c,d),(e,f)\in R$: BUIND 1'79J1C a(c V (a=c n b≤b) c(eV (c=e nd ≤f) acc Acze by som ace to (a,b), (e,f) ER i le moede acc ((=e rdef) 12 Noedk ace :7-65) 2C R (a,b)(e,f) ER apiether my i ropar (a=c Nb&d) N(C(e) 1/2 -112 ofc a=a/b=b $(a_ib)_i(a_ib) \in R$ (a,b), (e, f) ER 9 (01/05; (a=c Nb<d) N(cendst) a=c=e A b&d&f

on a=e A b&f (a,b)(e,f)∈R

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A Sur Mic Mich! $I_A(x) = a$ x = a $x \in A$ 15 m ulie J- v oligi evuld (e- 4) vur J. AGIA V = x = 0 $f(x^4) = \int_{\mathbb{R}^2} f(x^5)$ $\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x}$ $\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x}$ $\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x}$ $\frac{\partial x}{\partial x} = \frac{\partial x}{\partial x}$ 1112 02 D) rell 2x = V - 1 $4x = \frac{V - 1}{2}$ r-1 eR THE LINE ISHO IN DIGHT SHOW

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 $h_3(x,y) = x-y$ $h_3: N \times N \Rightarrow Z = 3$ $h_2(y,5) = -1$ $(2,3) \neq (y,5) \mid 5 \mid K$ $. \quad \hat{y} \cap n \quad K = 1$

 $(2^{+1}, 1) \in N \times N \text{ SIC} \quad 2 \geq 0$ THE $(2^{+1}, 1) \in N \times N \text{ SIC} \quad 2 \geq 0$ THE $(2^{+1}, 1) = 2$ $(2^{-1}, 1) = 2$ $(2^{-1}, 1) = 2$

(1,-2+1) ENXN SK 2<0 7176 @ 13 (1,-2+1) = Z 2-1 117N URZN U Z H L3

$$L_{1}(A,B) = AVB \qquad L_{1}: P(N)XP(N) \Rightarrow P(N)D$$

$$(\{A,\{2\}\}\} \neq \{A,\{3\}\}) = \{A,2\}$$

$$\{A,\{2\}\} \neq \{A,\{3\}\} = \{A,2\}\}$$

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$$A_{1}(A,\{A,\{3\}\} = \{A,2\}\}) = \{A,2\}$$

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$$A_{1}(A,\{A,\{3\}\} = \{A,2\}\}) = \{A,A\}$$

$$A_{1}(A,A) = \{A,A\}$$

$$A_{1}(A$$

 $f_2(x) = \chi + \frac{1}{x}$ $f_2: (0, \infty) \rightarrow (c, \infty)$ $f(\frac{1}{2}) = \frac{1}{2} + \frac{1}{2} = 2\frac{1}{2}$ $f(a) = a + \frac{1}{2} = 2\frac{1}{2}$ ingoli Li Day SR (0,00) rives silv 11th 8 wil 7 €(0,00) no, f. 2(x) = y $X + \frac{x}{\sqrt{x}} = \lambda / x$ X2-1 N= JX x2-x y -1 =0 X4,2= y= 5y2-4.1.1 -2 < y < 2 >124 -160 1771 \ \D= y^2 - Y 1) July 1941 14 UIR 11PO (0°9) 612750 A 1) 1159 (0,00) & Type f2 $f_{3}(x) = f_{3}(y)$ $x - \frac{1}{x} = y - \frac{1}{y} = y^{2}x - x$ $x^{2}y - y = y^{2}x - x$ $x^{2}y - x(x - y^{2}) - y = 0$ $y^{2} - 1 + (x^{2} + x)^{2} - y = 0$ $f_3(x) = x - \frac{1}{x}$ $f_3(0, \infty) \rightarrow \mathbb{R}$ X_{1,2} = y -1 + \(\(\text{Fy}^2 \dot 1 \) -4 \\ \(\text{Fy}^2 \dot 1 \) = \(\text{Fy}^2 \dot 1 \) x1,2= y=1= Jy=2y2-11-14y2 $Y_{1,2} = \frac{y^2 - 1 \pm \int y^2 - 2y^2 + 1}{21} = \frac{y^2 - 1 \pm \int (y^2 + 1)^2}{21}$ $= y^{2} - 1 = (y^{2} + 1)$ $\chi_{1} = \frac{2}{2y} = y$ $\chi_{2} = \frac{2}{2y} = -\frac{1}{y}$

F. M JUST 7 NOR MADI. 119 21/20 163/14 6 3/1 1/2-.fa הציל ואינו דתחוז הפוץ בה היאי - frn f3 22437 (0,00) PINAZ (0,0) PINT 1/1 1/12 EMI YEIR f3(x) = y $x - \frac{1}{x} = y^{1/x}.$ $x^{2} - 4 = y^{x}$ 0 = x2 - xy =1 $\chi_{1,2} = \frac{y \pm \int y^2 - 4 \cdot A \cdot (-1)}{2} = \frac{y \pm \int y^2 + 4}{2}$ مردی، محر مدرد مراون الط علی مارین (موی عدری I.V. Coll Judish. IR 6 1000 +3 $f_{1}(x) = X \cap Z$ $f_{1}: P(R) \rightarrow P(R) \subseteq G$ f({1,1}) = {1,1} nz = {1} f({1,133} = {1,133 nZ = }13 {1,1}} + {1,1}} you let fr

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, profes to _sc (2p) ... 6=12 4=2 ,2=4 ,0=2 !keng19 (-12 4/h 7813431 / (27) | 7 = 2.311, 5 = 2.211, 3 = 2.111 8n41 = ... , 9 ,1 ; n din 1745. FED 12 دوار فر مرج د مع دوره المع مع ماد ا الع فل در رح موقد مع الع و الع و المعالم وما ما الول [התמונה] Inf= N-[8h11/nEN] 54 -110pe Mistr 12 pt 24 176pe 1200 23es (X-3) x22 type of sight of his -1 = +(6) /x12 F دورما و دري الله ادله عو سهود InF=R R Kin nymon pli , 2041 2 4 MESIX (95) ANKH PYGT PYIR 6.1304 1.362 XXXXXXXX 2 H will will able to bet own 1360 < 12x+3 x>1 Inf=R pli, ly pli, rnn sispro is poll

6 - free . ET. 14), 14/1, x/

140, 64 Se City 20.0.17 f(x) = 1 HI Jon f: (0,1) -> (0,00) 7 $f(x) = \frac{1}{x} - 1$ 61 jm photos f:[2,5)-(1,3) , a (60 GA LINY: (1/2) (+'5) $M^{2} \frac{3-1}{5-2} = \frac{6}{3} = 2$ $M^{2} \frac{3}{5-2} = \frac{6}{3} = 2$ $M^{2} \frac{3}{5-2} = 2$. hi for f: [a,b] → [c,d] a,b,c,d ∈ R (6,6) (a,c) -18122 of x(1) = $\frac{a-b}{a-b}(x-a)$ $y = \frac{c-d}{a-d} \times + c - \frac{ac-ad}{a-d}$ $f(x) = \frac{1}{c-d} \times 1c - a \cdot \frac{1}{c-d}$ · h1 in f.[1,3)U[1,8] > [0,1] 2 رود عندس ما رود ا ماد العد ماد مو مادم عل علا له ماده دع على المادم على المادم على المادم على المادم على المادم [0, \frac{1}{2}] (\frac{1}{2}) (\frac{1}{2}) (\frac{1}{2}) (3,2) (1,0) $\Rightarrow 0$ $f:[1,3) \rightarrow [0,1]$ $\Rightarrow 0$ $\frac{1}{3\cdot 1} = \frac{1}{2} = \frac{1}{4}$ (8,1) (4,2) => 01 f:[4,8] > [2,1]: BN $\frac{A-\frac{1}{2}}{8-4} = \frac{\frac{1}{2}}{4} = \frac{1}{8} \qquad y-1 = \frac{1}{8}(x-8)$ $(y-\frac{1}{8})$ f(x)= \(\frac{x}{4} \) 1 \(x < 3 \)
\(x \) 4 \(x < 9 \)

f: $sic \rightarrow tile$ f: right = right $\frac{r_1}{2}$ $\frac{r_2}{2}$ $f(x) = \begin{cases} \frac{r_2}{2} & \text{Neven} \\ -\frac{r_1}{2} & \text{Nodd} \end{cases}$

9(x)= {-22-1 250 ig 7-3910

M={0,4} F(x) = x2-1x+4 $\xi_{\bullet}(t^{(W)})$ 10 $f(w) = \begin{cases} A_1 - 307A = 0 \\ 0_2 - 07A = A \end{cases}$ f (4,0) 24 Ca désique or com 248 pour og Esta sil 13 126h 177 2032 of 1620 A JULY WE LY x(x-2) = 0 x' = 0 x' = 2 $x_5 - 2x = 1$ x' = 0 x' = 2K-1X 24 =0 (x-y)(x-A)=0 (x-y)(y-A)=0 (x-x)(y-A)=0f'(+(m)) = } 0,1,4,5} $t(t_{-1}(w))$ f ({0,1,4,5}) f(0)=4 f(1)=0 f(4)=0 f(5)=4 f(E_1(W)) = 8043

f (f ({3,43)) 12 किया जर स्थित सम्माति को टन X-2X=+=0 X-2X+A=-3 167 Les 166 2011 11 A11 A116 110 A1 Por f (0) that = f(s)=y

 $f(f^{-1}(\{-3\}))$ 3 $\text{Now is } \phi = f(\xi-3)$ F(d) = ¢ E {1/2/0'8} t(u)= { 30 ve hace t: b)= 4 5 $f\left(f_{-\nu}(E)\right)$: E & 411/2 212) TE BU JE 10 10 D DIES - E(U) = V 112 g he + E(v) =2 The de me or by C+1 t(v)= C\$ an knowl july of the fire was 1911 6 m/11. 113 m ph 271 8=16 (n=1)

Sy, Never : 11/22 -2/13/ f({4, 17, 12}) = {1, 2}

DCY ECB E: 4->0 16.4) 1.00 you med would with 25 15134 see), t(0) = 0 to 4 ing his LOU and gri < a + (0) + cos 18 2. 1813 Bully 1500 > Tical 1.52 op mas object 2013 man out to 1(E)=E & list of [] + (B) } Pris (Pris) (a) 2 (a) 7 xertle) fet(a) AAP fet(b) when of xe t(x) = f.

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(x \in \text{he}) xxf(a) ye XED WEL $x \in D^{n} \cap \mathcal{N}_{\sigma_{i}}$ A > X Ell reade A > C $f(x) \in f(0)$ $\bigvee f(x) \in f(Y)$ F(A) 3 EL 3M F(O) 3 ONE B U F(O) C F(A) fred ef on 4 3 620 mil man, that too they the DOVA but I have of me simple they fill no sum of

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f (E) CA S

 $E(B) = \{(a) \in B \}$ $E(A) \in E$ E(A) = E E(A) = E

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F (E) CA

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 $f(x) = \begin{cases} 3x + 1 & x \ge 1 \\ 4 - 3x & x < 1 \end{cases}$ $g(x) = \begin{cases} 2x-1 & x \ge 2 \end{cases}$ X+3 = 1 yas> x > -2 1 / Gp -2 1 / M/2 2 X13 X15 1 N /BC 2x-1 1/340) 2 4-3(2X-1) 3(3+x)+1 4-3 (x+3) 4-6x+3 913×11 3 X 419 _3X~5 In. f=f is f. IA=f 13 fi A->B $\int_{\mathcal{B}} \left(f(\alpha) \right) = \mathcal{F}(\beta)$ f. (q(u)=u) = f(a) (b) = b // f ((a) : f(a) (fig) . L = fo(g.L) r(c)=p 9(b)=c f(c)= 0

f(d(P)) = D

f(g(k(a)))=p

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9: B > A f: A >B : TRNCH gof = IA g:B>A F:A>B fog = IB הפינה אימין! fog: A=>c g: A=>B f: B=c

She finn g g! finn f fur t : In) 100 g 100 g 100 g h2: B-> A LiBAC Kof=IB. (roe) क्रांकी × रि.९ न देशार्थी ; 3 my - King = IA La oJB og = IA Lao Knofog = IA tog de lunch sous min tog to Theren is not to you tog ranf sie fan fog ple 2 β, נפיפיו

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f: B-c 9: A-B
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