Camitresau Afgebria 40ct 2022 Na stanera Nita, Tracia Batell Hegebrai Baética, Boboc, Dascalescu, Minicu Profleme de Multime ne function colectie de elemente ex {1, 2, 34 = { x e R [(x-1)(x-2)(x-3)=03 RCRCC 20,1,23...3 Exemple n-> m+1 Sabmultime X=XCA Exempla: A=31,2,34 127, 233, 11,29 Conclusione o tri da multimeanubmultimiler au partile multimu A 21,2, 233, 23, 17, 23

can dimalul multi mii A = no elemente A esto multimo 1A1 pt timita of A = B doug mutt runt egale aceleari elemente ai BeA (0) 1 ri in vers peratti Au conternacha AB (=) XEAN 065 In orice mult de runt mentionate O rungura data 1,1,2,34 NV este o multime [11] M reuniane a 1) B = elementele den ambele mul mentionate o unquia data

Differente AB= {X | X ∈ A 1 X & B } Conplementera A CU universa CA = A = EXEU/XEAG=UNA Prop (re Morgan) Fild, B multimi (I)AUB = (2) # n B = A VB/ XE AUBEXXE(AUB) X EAUBE) XEAVXEB (Sau) V & A A X & B. XEANXEBE)XEA

Fil ABC multime atunci ASAUB; HABEBEAUB 2) AAB = BAA XEANBEXEANXEBE) X E B 1 X E A -> comutativitato AUB=BUA 3 (AnB) nC = An(BnC) = AnBnc / asociated (4) (AUB) UC = AU (BU 5) An (BUC) = (AnB) U 6) AU (BnC) = (AUB) p (AU (Bn) () XEAV (YEBOC (XEBA (2) (X CA pau (X CB EXEAVXEB) N(XEAVX

=) X C (AUB) O (AUC) Prod carte Fran a dona multime? A {(a,b)/ Q E A a be B4 A= 20,19, B= (0,2) A × B = { 10,0), (0,2), (1,0)(1,2)} BXA = { (0,0), (0,1), (2,0), (2,1)} [0,1] | D=Z0,27 0,17×[0,2] Fundi O fanctio este formata din 2 multimi A B (domeniusi regrette) codomenia a o anumitar relatio D (7:4-)B) i am comicof(x) eB asoulem

une tu minim 4a 19-2

(2) X1 - 3X+3=0 f(x)=-1 (=) x2-34+3-0 2) A mu e rurjectiva => X & C NU l'aurjectiva. f: [3/2,+0)) [-1/4,+0) f(x1=x1-3x+2 +(x1)=+(x2) (=) x2-3x1+x=x2-328 =) $(x_1^2 - x_2^2 + 3(x_1 - x_2) = 0$ $(x_1 - x_2)(x_1 + x_2 - 3) = 0$ 1 /1 = /2 W X1+X2=3 X1, X2 = 3/2 (=) X1= X2 nele / (x1)= + (x2)=) X1- X2 (feste injectiva)

(+) y = -4 (7/2 X E[3/2,+00) a. [7 (2) = x2-3x+2=4 (2) x2-3x+2-9=0 X1,2=3+1/9-4/2-9) 3 + 19 + 49 92-4=)492-1 =)1+4920 =) V = 3+V1+44 ([3,00) Def: form bijectiva (2) ento atat in ni nur! +> B bij (=) (#) g & B 7/ xex a. ? (x)= cy. 11 obs: No ou ce curba din 1/2 erte graficul une functio fin on 16=3 (x,9) e R2/12+92=13

s remanea of a done fet JA(X)=VA-V2 +2(x)=V1-x2 x=0=) 01+91=1=14 E/£19 Compunerea function! 4 + 3 3 3 3 0 (90+)(x)=9(+(x)) 11063 Compunerea nu e comutativa Bx: 2 - 2) ACX = ain X 9(2)= 22 H9 109 \$ 907 (709)(x)= +(g(x))=+(x)/=nin x2 (90+)(x)= g(+(x))= g(nix)=nin x PAR X = U un (4) +0 = nin (4

e asociati fionetic A 0 (g oh) 09) 9(h(x)) Oh 0 (0 oh h (x)) Teorema 907 DC. on ecti

