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Multe - Probleme de algebra

Probleme numerice (2008)

T. D. Tom, C. Nita, D. Popescu, N. Radu - Probleme

de ... probleme teoretice mai grele

Exemple (1) A={1,2,--,300} = } x=N\* |x=300} (Conventie N=30,1,2,--,-) 2) A={xeR|x2-5x+6=0}=}2,3} Exc Calc.  $A = 3 \propto e C(x-1) \cdot - (x-100) = 0$ . 3) MGZGQFRGC. N\*= 1/2,---> Operation cu multimi A,B multimi AUB= oc xeA sou xeBy 2) AnB= }xlxeA sixeB} 3 AB=1x1xeA'six&B) diférenta dintre A si B DA = M\A (complementara)

LM = M\A (complementara)

LM = M\A (mm) Def 1) Multimea vida este multimea care nu are nicium element. Ea se noteaza cu  $(E_X \phi = ) xeN | x = -11)$ 2) A,B s.m. disjuncte daca AnB=Ø. B AB multimi A×B= λ(a,5) | aeA, beB)

approdusul cartezian
al multimilor AsiB

Ex A=31,2137 = +1=31,213,4155 (F19/=C) L'MA = {4,59 A×B=}(1,6),(2,6),(3,7))  $A \subseteq M$   $A \cap C_M A = \emptyset$ AUB= }1,2,3,5}  $A = \frac{3}{123}$ ,  $B = \frac{3}{23}$ 40B= 72135 A(B=319 BLA= 357 6 AB multimi ABB (A/B)U(B/A). Aiferenta simetrica a lui AsiB a lui AsiB (ale operatiilor cu multimi) ADB = 31,59 1 AUB=BUA, AOB=BOA 2) AU(BUC) = (AUB)UC, An(Bnc)-(ANB)nC 3 An(Buc) = (AnB) u (Anc), Au(Bnc) = (AuB)n(Au QABEM CM(AUB) (HUB) = CMA OCMB  $C_{M}(A \cap B) = \dots = C_{M} \cup C_{M}B.$ Obs Pt a arâta « egalitate de multimi, A=B, dem.ca A CB si B CA. Exc(1) Sà se anate ca R/1/2=1 x | x = \frac{\art1}{2a+1}, \art1-\frac{1}{2}\frac{1}{2}

 $(3N+2) \cap (5N+1) = 15N+11$  LCR