Funcții Caracteristice

SEMINAR DE LOGICĂ MATEMATICĂ ȘI COMPUTAȚIONALĂ

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Exerci! La se dem, execuativitates
luid, folosind functio coracteristice,
Fre AB, C mulboni,
AD (BAC) = (ADB) DC.
Fre T = AUBUCUEO3, >T+8
17 / = 1) RC 1- 0
functio reportet le T.
raportat la T.
AD(BDC) = XA + XBA
TO A TRACE X + V
$-2 \cdot \chi_{B} \cdot \chi_{C} - 2 \cdot \chi_{A} \cdot (\chi_{B} + \chi_{C} - 2\chi_{X})$ $= \chi_{A} + \chi_{B} + \chi_{C} - 2\chi_{A} \cdot (\chi_{B} + \chi_{C} - 2\chi_{X})$
$= X + X_{B} + X_{C} - 2X_{A}X_{B} - 2X_{A}X_{C}$ $= X_{A} + X_{B} + X_{C} - 2X_{A}X_{B} - 2X_{A}X_{C}$ $= X_{B} + X_{C} + 4X_{A}X_{B}X_{C}$ $= X_{C} + 4X_{A}X_{B}X_{C}$ $= X_{C} + 4X_{A}X_{B}X_{C}$
$\begin{array}{c} \chi \\ (A\Delta B)\Delta C = \chi_{A\Delta B} + \chi_{A\Delta B} \\ -2\chi_{A\Delta B}\chi_{C} = \chi_{A} + \chi_{B} - 2\chi_{A}\chi_{B} + \chi_{A} \\ +\chi_{A} - 2\chi_{A}\chi_{B} + \chi_{A} - 2\chi_{A}\chi_{B} + \chi_{A} - 2\chi_{A}\chi_{B} \end{array}$
$+ \times_{c} - 2 \times_{d} + \times_{g} - 2 \times_{d} \times_{g} \times_{d} \times_{g}$ $= \times_{c} + \times_{d} + \times_{g} - 2 \times_{d} \times_{g} \times_{g$
$= \chi_A + \chi_B + \chi_C - 2 \chi_A \chi_B - 2 \chi_A \chi_C - 2 \chi_B \chi_C + 4 \chi_A \chi_B \chi_C + 4 \chi_B \chi_C + 4 \chi_A \chi_$
$(*)(**) \rightarrow \times$
$(*), (**) \Rightarrow \times_{A\Delta(B\Delta C)} = \times_{(A\Delta B)\Delta C} \Leftrightarrow$ $\Leftrightarrow A\Delta(B\Delta C) = (A\Delta B)\Delta C.$

Exercit leple de distrib, generalisate 17 mullimi 77 (Ai) ie], (By) je] familie (3) An (Jet Bt) = U (An Bt) (2) An (Jet By) = U (An By) (3) (nestri) u(DB) = UU(AinB) (= n (ALUBY)) (4) (U Ai) n (U B) = U U (Ain B) (= U U (ALNB)). Up By U CON + 8, 20 (Xm= == fot, coract; a lui r raportat la T) (2) Magri f:=X >20,23 x0 g= x (AUB): T> > {0,23, }= $f(x) = \max \{x_a(x), \min \{x_b(x)| \} \in \mathcal{J}$ (x) = min Emos (x) x By (x) HeII. Est 1: min { x } (x) | feff = 0.0 $\Leftrightarrow \{\exists j \circ e \}$ (x) = 0 $= \max\{x \in X_{\Delta}(x), 0\} = x_{\Delta}(x)$ $= \max\{x \in X_{\Delta}(x), 0\} = x_{\Delta}(x)$



