

Corr 2 : $x \notin A \Leftrightarrow \chi_A(x) = 0 \Rightarrow \frac{c \in \{0,1\}}{c \in \{0,1\}}$

$$\Rightarrow F(x) = \max \{0, \min \{ \chi_{A_i}(x) \mid i \in J \} \}$$

$$= \min \{ \chi_{A_i}(x) \mid i \in J \}$$

$$G(x) = \min \{ \max \{ 0, \chi_{A_i}(x) \} \mid i \in J \}$$

$$= \min \{ \chi_{A_i}(x) \mid i \in J \}$$

$$\Rightarrow F(x) = G(x) \Rightarrow F = G \Leftrightarrow (a)$$

Exerc : $A, B, C \rightarrow \text{mult. set.}$ $A \Delta B = C \Leftrightarrow C \Delta B = A$

$$\Leftrightarrow C \Delta A = B \Leftrightarrow B \Delta A = C \Leftrightarrow B \Delta C = A \Leftrightarrow A \Delta C = B$$

Re2 :

$$[A \Delta B = C \xrightarrow{(*)} C \Delta B = A]$$

$(*)$ (ABC)
 $(**)$ (CBA)

$B \Delta C = A$
 $(*)$ (ABC)
 $(**)$ (CBA)

$A \Delta C = B \Leftrightarrow C \Delta A = B$

$(*)$ $P_p A \Delta B = C$

$C \Delta B = A$

Met. I. $T = A \cup B \cup C \cup \{0\} \neq \emptyset \Rightarrow \chi_x \chi_b^2 = \chi_b$

$$A \Delta B = C \Leftrightarrow \chi_c = \chi_{A \Delta B} = \chi_A + \chi_B - 2\chi_A \chi_B \Rightarrow$$

$$\Rightarrow \chi_{C \Delta B} = \chi_c + \chi_b - 2\chi_b \chi_c = \chi_A$$

Met. II $A \Delta B = C \Delta B$

$$C \Delta B = (A \Delta B) \Delta B \Rightarrow A \Delta (B \Delta B) = A \Delta \emptyset = (A \setminus \emptyset) \cup (\emptyset \setminus A)$$

$$= A \cup \emptyset = A$$