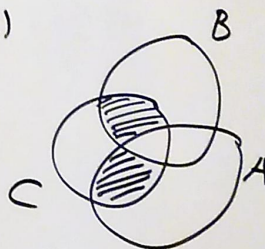


$$\begin{aligned}
 6.) \quad \mu(A \Delta B) &= \mu((A \cup B) \setminus (A \cap B)) = \mu(A \cup B) - \mu(A \cap B), \text{ da } A \cup B \supseteq A \cap B \\
 &= \mu(A) + \mu(B) - \mu(A \cap B) - \mu(A \cap B), \text{ da } \mu(A \cup B) + \mu(A \cap B) = \mu(A) + \mu(B) \\
 &= \mu(A) + \mu(B) - 2\mu(A \cap B)
 \end{aligned}$$

$$\begin{aligned}
 \mu((A \Delta B) \Delta C) &= \mu(A \Delta B) + \mu(C) - 2\mu((A \Delta B) \cap C) \\
 &= \mu(A) + \mu(B) - 2\mu(A \cap B) + \mu(C) - 2\mu(((A \cup B) \setminus (A \cap B)) \cap C)
 \end{aligned}$$

$$\begin{aligned}
 \mu(((A \cup B) \setminus (A \cap B)) \cap C) &= \mu((A \cap C) \cup (B \cap C) \setminus (A \cap B \cap C)) \\
 &= \mu((A \cap C) \cup (B \cap C)) - \mu(A \cap B \cap C)
 \end{aligned}$$



$$\begin{aligned}
 &= \mu(A \cap C) + \mu(B \cap C) - \mu((A \cap C) \cap (B \cap C)) - \mu(A \cap B \cap C) \\
 &= \mu(A \cap C) + \mu(B \cap C) - 2\mu(A \cap B \cap C)
 \end{aligned}$$

$$\mu(A \Delta B \Delta C) = \mu(A) + \mu(B) + \mu(C) - 2\mu(A \cap B) - 2\mu(A \cap C) - 2\mu(B \cap C) + 4\mu(A \cap B \cap C)$$

$$\mu(A_1 \Delta A_2 \Delta \dots \Delta A_n) = \sum_{\substack{I \subseteq \{1, 2, \dots, n\} \\ I \neq \emptyset}} (-2)^{|I|-1} \mu\left(\bigcap_{i \in I} A_i\right)$$