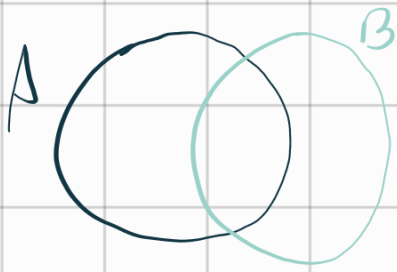


8. Si $A, B \in \mathcal{M}$ entonces $\mu(A \cup B) + \mu(A \cap B) = \mu(A) + \mu(B)$.



$$A = A \setminus B \cup A \cap B \rightarrow \mu(A) = \mu(A \setminus B \cup A \cap B) = \mu(A \setminus B) + \mu(A \cap B)$$

$$B = B \setminus A \cup A \cap B$$

$$\mu(A \cup B) \leq \mu(A) + \mu(B)$$

$$\mu(A \cup B) = \mu(A \setminus B) + \mu(B)$$

$$\rightarrow \mu(A \cup B) + \mu(A \cap B) = \mu(A \setminus B) + \mu(B) + \mu(A \cap B)$$

$$= \mu(A \setminus B) + \mu(A \cap B) + \mu(B)$$

$$\mu(A \setminus B \cup A \cap B)$$

$$\mu(A)$$

$$\rightarrow \mu(A) + \mu(B)$$