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Define

[1] the denumerable set

- A set A is said To be denumerable set if there exists a bijection $F: N_+ \to A$.

[2] measurable set [condition)

- the member of M are called measurable set if M is 6-algebra in X, (X, M) is called measurable space

[3] measurable Partition set To A

- if (X, M) is a measurable space. the collection is called a denumerable measurable partition of A if $A = \cup_{n=1}^{\infty} A_n$ and $A_n \in M$ For every $n \in N_+$.

[4] Positive measure

- if (X, M) is a measurable space a content μ defined on the 6-algebra M is called a positive measure if it has the Following property;

For any disjoint denumerable collection $(A_n)_{n \in N_+}$ of members of M

$$\mu(\cup_{n=1}^{\infty} A_n) = \Sigma_{n=1}^{\infty} \mu(A_n).$$