

PROBABILIDAD (Conjuntos)

$$P(\emptyset)=0$$

$$P(E)=1$$

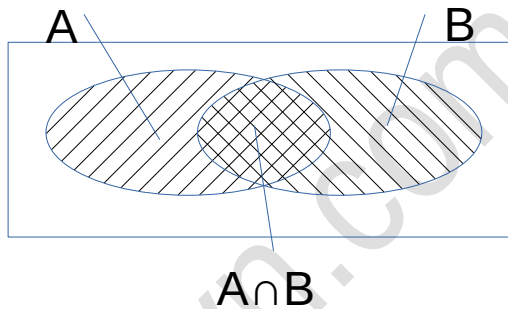
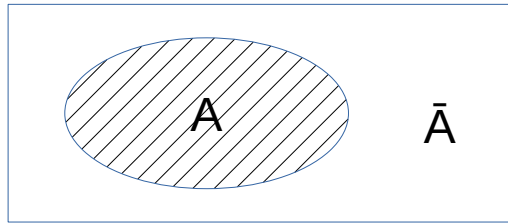
$$P(A)+P(\bar{A})=1$$

$$A \circ B \quad (A \cup B)$$

$$A \text{ y } B \quad (A \cap B)$$

$$A \text{ si } B \quad (A|B)$$

$$\text{Si } A \subset B \Rightarrow \begin{cases} P(A \cup B) = P(B) \\ P(A \cap B) = P(A) \\ P(A) \leq P(B) \\ P(B) = P(A) + P(B - A) \end{cases}$$



$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

$$P(\overline{A \cup B}) = P(\bar{A} \cap \bar{B}) = 1 - P(A \cup B)$$

$$P(\overline{A \cap B}) = P(\bar{A} \cup \bar{B}) = 1 - P(A \cap B)$$

$$A \text{ y } B \text{ independientes si } \begin{cases} P(A|B) = P(A) \\ P(B|A) = P(B) \\ P(A \cap B) = P(A) \cdot P(B) \end{cases}$$