

Probability Theory- Exercises and Solutions

Exercise1 :

The following figure represents a Venn diagram that includes the sample space and two events A and B:



Where, $P(a) = 0.32$, $P(b) = 0.1$, $P(c) = 0.28$, $(d) = 0.2$.

1. Check out DeMorgane's Laws.
2. Calculate the probabilities : $P(A)$, $P(B)$.
3. Calculate $P(A \cap B)$.
4. Calculate $P(A \cup B)$ in two different ways.

Solution :

- 1.** DeMorgane's Laws state that: $(\overline{A \cap B}) = \overline{A} \cup \overline{B}$, $(\overline{A \cup B}) = \overline{A} \cap \overline{B}$

Check the *first law*:

$$\begin{aligned} \overline{(A \cap B)} &= \Omega - (A \cap B) = \Omega - \{c\} = \{a, b, d, e\} \\ \overline{A} \cup \overline{B} &= \{a, d, e\} \cup \{a, b\} = \{a, b, d, e\} \quad \Rightarrow \quad \overline{(A \cap B)} = \overline{A} \cup \overline{B} \end{aligned}$$

Check the *second law*:

$$\begin{aligned} \overline{(A \cup B)} &= \Omega - (A \cup B) = \Omega - \{b, c, d, e\} = \{a\} \\ \overline{A} \cap \overline{B} &= \{a, d, e\} \cap \{a, b\} = \{a\} \quad \Rightarrow \quad \overline{(A \cup B)} = \overline{A} \cap \overline{B} \end{aligned}$$

- 2.** Calculating the probabilities : $P(A)$, $P(B)$

$$P(A) = P\{b, c\} = P(b) + P(c) = 0.1 + 0.28 = 0.38$$

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