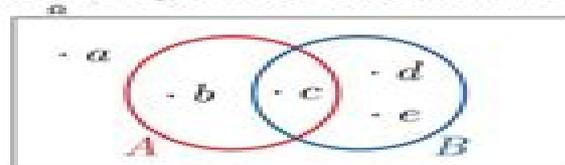


Probability Theory- Exercises and Solutions

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 : $P(A)$, $P(B)$

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

Probability Exercises And Solutions

Patrick Vollmar



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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Probability Exercises And Solutions**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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