

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

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

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Jianjun Gao



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Mathematical Questions and Solutions ,1874 **Mathematical Questions and Solutions, from the "Educational Times"** W. J. C. Miller,1879 Mathematical Questions and Solutions, from the "Educational Times." ,1871

Probability Problems and Solutions Stefan Hollos,J. Richard Hollos,2013-04 This book will help you learn probability in the most effective way possible through problem solving It contains over 200 problems in discrete probability with detailed solutions for each Most of the problems require very little mathematical background to solve A good grasp of algebra is all that is required Some prior exposure to probability or combinatorics will make things easier but the book has enough introductory material to cover any deficiency in those areas There are sections that review the basics of discrete probability and combinatorics There are also sections on advance topics in discrete probability that are helpful in solving the more difficult and interesting problems The problems range widely in difficulty and variety They begin very easy and increase in difficulty as you go The first few are warm up problems to wake up your probability neurons and get you ready for what s to come Some of the later problems can be quite challenging and may take some effort to solve There are problems on letters and words dice and coin problems card problems sports problems Bayesian problems collection problems birthday problems and many many more The almost endless variety of probability problems is one of the things that makes them so stimulating and fun to solve *Mathematical Questions and Solutions, from "The Educational Times", with Many Papers and Solutions in Addition to Those Published in "The Educational Times" ...* ,1874 **Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times"** ,1895 **Solution Manual for Partial Differential Equations for Scientists and Engineers** Stanley J. Farlow,2020-07-15 Originally published by John Wiley and Sons in 1983 Partial Differential Equations for Scientists and Engineers was reprinted by Dover in 1993 Written for advanced undergraduates in mathematics the widely used and extremely successful text covers diffusion type problems hyperbolic type problems elliptic type problems and numerical and approximate methods Dover s 1993 edition which contains answers to selected problems is now supplemented by this complete solutions manual Mathematical Questions with Their Solutions ,1873 **The Solution of Equations in Integers** A. O. Gelfond,2018-04-18 Covering applications to physics and engineering as well this relatively elementary discussion of algebraic equations with integral coefficients and with more than one unknown will appeal to students and mathematicians from high school level onward 1961 edition **Fifty challenging problems in probability with solutions** Frederick Mosteller, *Industrial Quality Control* ,1965 **Annals of Mathematics** ,1887 Journal of the Institute of Actuaries Students' Society Institute of Actuaries (Great Britain). Students' Society,1925 **The American Mathematical Monthly** ,1910 Includes section Recent publications *Mathematical Magazine* ,1890 Articles and Excerpts, Volume 1 AoPS Incorporated,2006 **Journal of the American Statistical Association** ,2002 *Bulletin of the New York Mathematical Society* ,1892 Bulletin (new Series)

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