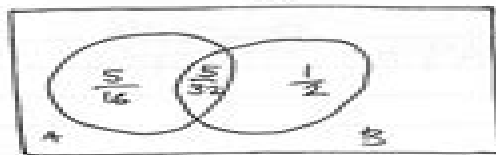


Probability - Venn Diagrams

Dan Locke

1.



U

$$P(A) = \frac{5}{16}$$

$$P(B) = \frac{1}{2}$$

$$P(A|B) = \frac{1}{4}$$

a). $P(A \cap B) = \frac{5}{32} \times \frac{1}{2} = \frac{5}{64}$

b). $P(B'|A) = 1 - \left(\frac{(\frac{5}{32})}{(\frac{5}{16})} \right) = \frac{1}{2}$

$$P(B|A) = \frac{P(A \cap B)}{P(A)}, \therefore P(B'|A) = 1 - P(B|A)$$

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

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

$$P(A') = 1 - \frac{5}{16} = \frac{11}{16}$$

$$P(A' \cap B) = \frac{11}{16} \times \frac{1}{2} = \frac{11}{32}$$

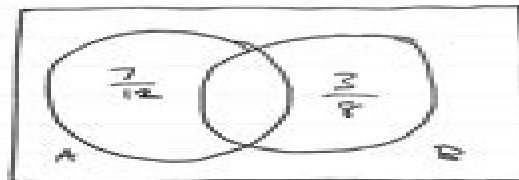
$$P(A' \cup B) = \frac{11}{16} + \frac{1}{2} - \frac{11}{32} = \frac{27}{32}$$

d). $P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{(\frac{5}{16} \times \frac{1}{2})}{(\frac{1}{2})} = \frac{5}{16}$

$$P(A) = \frac{5}{16}$$

$$P(A|B) = P(A), \therefore \text{they are independent.}$$

2.



U

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

$$P(B) = \frac{(\frac{1}{4})}{(\frac{2}{3})} = \frac{3}{8}$$

b). $P(A \cup B) = P(A) + P(B) - P(A \cap B) = \frac{7}{12} + \frac{3}{8} - \frac{1}{4} = \frac{17}{24}$

Mei S1 Conditional Probability Solutions

David Patrick



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Mathematical Reviews, 2005 **Current Index to Statistics, Applications, Methods and Theory**, 1991 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields *A First Course in Probability* Sheldon M. Ross, 1994 This market leader is written as an elementary introduction to the mathematical theory of probability for readers in mathematics engineering and the sciences who possess the prerequisite knowledge of elementary calculus A major thrust of the Fifth Edition has been to make the book more accessible to today's readers The exercise sets have been revised to include more simple mechanical problems and new section of Self test Problems with fully worked out solutions conclude each chapter In addition many new applications have been added to demonstrate the importance of probability in real situations A software diskette packaged with each copy of the book provides an easy to use tool to derive probabilities for binomial Poisson and normal random variables It also illustrates and explores the central limit theorem works with the strong law of large numbers and more *First Course in Probability, A, Global Edition* Sheldon Ross, 2019-07-12 For upper level to graduate courses in Probability or Probability and Statistics for majors in mathematics statistics engineering and the sciences Explores both the mathematics and the many potential applications of probability theory *A First Course in Probability* offers an elementary introduction to the theory of probability for students in mathematics statistics engineering and the sciences Through clear and intuitive explanations it attempts to present not only the mathematics of probability theory but also the many diverse possible applications of this subject through numerous examples The 10th Edition includes many new and updated problems exercises and text material chosen both for inherent interest and for use in building student intuition about probability The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you'll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed ***A First Course in Probability*** Ross, 2002-09 *Probability Through Problems* Marek Capinski, Tomasz Jerzy Zastawniak, 2013-06-29 This book of problems has been designed to accompany an undergraduate course in probability It will also be useful for students with interest in probability who wish to study on their own The only prerequisite is basic algebra and calculus This includes some elementary experience in set theory sequences and series functions of one variable and their derivatives Familiarity with integrals would be a bonus A brief survey of terminology and notation in set theory and calculus is provided Each chapter is divided into three parts Problems Hints and Solutions To make the book reasonably self contained all problem sections include expository material Definitions and statements of important results are interlaced with relevant problems The latter have been selected to motivate abstract definitions by concrete examples and to lead in

manageable steps toward general results as well as to provide exercises based on the issues and techniques introduced in each chapter The hint sections are an important part of the book designed to guide the reader in an informal manner This makes Probability Through Problems particularly useful for self study and can also be of help in tutorials Those who seek mathematical precision will find it in the worked solutions provided However students are strongly advised to consult the hints prior to looking at the solutions and first of all to try to solve each problem on their own **Solutions Manual**

Sheldon M. Ross,1998 **Probability** Frederick Mosteller,Robert E. K. Rourke,George Brinton Thomas,1970

Introduction to Counting and Probability Solutions Manual David Patrick,2005-11-01 **Solutions Manual for Introduction to Probability and Statistics for Engineers and Scientists** Sheldon M. Ross,2000

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