

Jack and Jill are taking a course with only three possible grades: A, B, C. The chance that Jack gets a B is 0.3. The chance that Jill gets a B is 0.4. The chance that neither gets an A but at least one gets a B is 0.1.

A Suggest a sample space (list all possible outcomes).

$\Omega = \{AA, AB, BA, BB, AC, BC, CA, CB, CC\}$

|      |      |    |    |
|------|------|----|----|
|      | Jill |    |    |
|      | A    | B  | C  |
| Jack | A    | AB | AC |
|      | B    | BA | BC |
|      | C    | CA | CC |

B What outcomes constitute the event "Jack gets a B"?

$\{BA, BB, BC\}$

C What outcomes constitute the event that at least one gets a B but neither gets an A?

$BB, BC, CB$

D What is the probability of the event that at least one gets a B but neither gets a C?

$$BA = 0.3$$

$$AB = 0.4$$

$$BB = 0.1$$

$$\begin{pmatrix} AB \\ BB \\ CB \end{pmatrix} + \begin{pmatrix} BA \\ BB \\ BC \end{pmatrix} = \begin{pmatrix} AB \\ BA \\ BB \\ BC \\ CB \end{pmatrix}$$

$$0.3 + 0.4 - 0.1 = \boxed{0.6}$$

✓

$$0.3 = P(BA, BB, BC)$$

$$0.4 = P \begin{pmatrix} AB \\ BB \\ CB \end{pmatrix}$$

$$\begin{pmatrix} AB \\ BA \\ BB \end{pmatrix} = P?$$

$$0.1 = P \begin{pmatrix} BB \\ BC \\ CB \end{pmatrix}$$

$$= \begin{pmatrix} AB \\ BA \\ BB \end{pmatrix} \checkmark$$

# Apex Liberal Arts Math Answers

**N Noddings**



## **Apex Liberal Arts Math Answers:**

**Mathematics for the Liberal Arts** Donald Bindner, Martin J. Erickson, Joe Hemminger, 2014-08-21 Presents a clear bridge between mathematics and the liberal arts Mathematics for the Liberal Arts provides a comprehensible and precise introduction to modern mathematics intertwined with the history of mathematical discoveries The book discusses mathematical ideas in the context of the unfolding story of human thought and highlights the application of mathematics in everyday life Divided into two parts Mathematics for the Liberal Arts first traces the history of mathematics from the ancient world to the Middle Ages then moves on to the Renaissance and finishes with the development of modern mathematics In the second part the book explores major topics of calculus and number theory including problem solving techniques and real world applications This book emphasizes learning through doing presents a practical approach and features A detailed explanation of why mathematical principles are true and how the mathematical processes work Numerous figures and diagrams as well as hundreds of worked examples and exercises aiding readers to further visualize the presented concepts Various real world practical applications of mathematics including error correcting codes and the space shuttle program Vignette biographies of renowned mathematicians Appendices with solutions to selected exercises and suggestions for further reading Mathematics for the Liberal Arts is an excellent introduction to the history and concepts of mathematics for undergraduate liberal arts students and readers in non scientific fields wishing to gain a better understanding of mathematics and mathematical problem solving skills

**Applied Mechanics Reviews**, 1966

**Math Tools** Georg Glaeser, 2017-09-13 In this book topics such as algebra trigonometry calculus and statistics are brought to life through over 500 applications ranging from biology physics and chemistry to astronomy geography and music With over 600 illustrations emphasizing the beauty of mathematics Math Tools complements more theoretical textbooks on the market bringing the subject closer to the reader and providing a useful reference to students By highlighting the ubiquity of mathematics in practical fields the book will appeal not only to students and teachers but to anyone with a keen interest in mathematics and its applications

*Math and Art* Sasho Kalajdzievski, 2021-09-26 Math and Art An Introduction to Visual Mathematics explores the potential of mathematics to generate visually appealing objects and reveals some of the beauty of mathematics It includes numerous illustrations computer generated graphics photographs and art reproductions to demonstrate how mathematics can inspire or generate art Focusing on accessible visually interesting and mathematically relevant topics the text unifies mathematics subjects through their visual and conceptual beauty Sequentially organized according to mathematical maturity level each chapter covers a cross section of mathematics from fundamental Euclidean geometry tilings and fractals to hyperbolic geometry platonic solids and topology For art students the book stresses an understanding of the mathematical background of relatively complicated yet intriguing visual objects For science students it presents various elegant mathematical theories and notions Features Provides an accessible introduction to mathematics in art

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Thomas Nemeth,2017-02-15 This book presents a comprehensive study of the influence of Immanuel Kant s Critical Philosophy in the Russian Empire spanning the period from the late 19th century to the Bolshevik Revolution It systematically details the reception bestowed on Kant s ideas during his lifetime and up to and through the era of the First World War The book traces the tensions arising in the early 19th century between the imported German scholars who were often bristling with the latest philosophical developments in their homeland and the more conservative Russian professors and administrators The book goes on to examine the frequently neglected criticism of Kant in the theological institutions throughout the Russian Empire as well as the last remaining though virtually unknown embers of Kantianism during the reign of Nicholas I With the political activities of many young radicals during the subsequent decades having been amply studied this book focuses on their largely ignored attempts to grapple with Kant s transcendental idealism It also presents a complete account of the resurgence of interest in Kant in the last two decades of that century and the growing attempts to graft a transcendental idealism onto popular social and political movements The book draws attention to the young and budding Russian neo Kantian movement that mirrored developments in Germany before being overtaken by political events

The Saturday Review of Politics, Literature, Science, Art, and Finance ,1918 **The Mathematica Journal** ,1990

**Transactions of the Conference of Arsenal Mathematicians** ,1980 **Mathematical Reviews** ,2007

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