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# Mathematical Excursions

**Marco Casella**



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way you know perceive and comprehend the world around you Enjoy the journey Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Uncommon Mathematical Excursions* Dan Kalman,2020-07-29 **Mathematical Excursions** ,2011 **Mathematical Excursions, Enhanced Edition** Richard N. Aufmann,Joanne Lockwood,Richard D. Nation,Daniel K. Clegg,2014-01-01 MATHEMATICAL EXCURSIONS Third Edition teaches students that mathematics is a system of knowing and understanding our surroundings For example sending information across the Internet is better understood when one understands prime numbers the perils of radioactive waste take on new meaning when one understands exponential functions and the efficiency of the flow of traffic through an intersection is more interesting after seeing the system of traffic lights represented in a mathematical form Students will learn those facets of mathematics that strengthen their quantitative understanding and expand the way they know perceive and comprehend their world We hope you enjoy the journey Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Mathematical Excursions* Richard N. Aufmann,Joanne S. Lockwood,Richard Nation,Dan Clegg,2015 [Student Solutions Manual for Aufmann/Lockwood/Nation/Clegg's Mathematical Excursions](#) Richard N. Aufmann,Joanne Lockwood,Richard D. Nation,Daniel K. Clegg,2012-01-19 Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Mathematical Excursions** Richard N. Aufmann,2003-03 A new text for the liberal arts math course by a seasoned author team Mathematical Excursions is uniquely designed to help students see math at work in the contemporary world Using the proven Aufmann Interactive Method students learn to master problem solving in meaningful contexts In addition multi part Excursion exercises emphasize collaborative learning The text s extensive topical coverage offers instructors flexibility in designing a course that meets their students needs and curriculum requirements The Excursions activity and corresponding Excursion Exercises denoted by an icon conclude each section providing opportunities for in class cooperative work hands on learning and development of critical thinking skills These activities are also ideal for projects or extra credit assignments The Excursions are designed to reinforce the material that has just been covered in the section in a fun and engaging manner that will enhance a student s journey and discovery of mathematics The proven Aufmann Interactive Method ensures that students try concepts and manipulate real life data as they progress through the material Every objective contains at least one set of matched pair examples The method begins with a worked out example with a solution in numerical and verbal formats to address different learning styles The matched problem called Check Your Progress is left for the student to try Each problem includes a reference to a fully worked out solution in an appendix to which the student can refer for immediate feedback concept reinforcement identification of problem areas and prevention of frustration Each Chapter Opener begins with a short introduction to a real data application which is then highlighted again in one Excursions activity and in the corresponding Excursion Exercises at the end of a section This specific Excursion will be

denoted by an icon A section by section table of contents is accompanied by a brief summary of the topics that will be covered in the chapter A section called Problem Solving Strategies in Chapter 1 introduces students to the inductive and deductive reasoning strategies they will use throughout the text An Instructor s Annotated Edition features icons denoting tables and art that appear in PowerPoint and Word files on the Instructor CD ROM and web site worked out solutions to all Check Your Progress exercises and answers to all exercises and a time saving listing Suggested Assignments A supportive Question Answer feature at key points throughout the text encourages students to pause and reflect on the concept being discussed and to answer the question The answer is located in a footnote on the same page Carefully developed Exercise Sets emphasizing skill building skill maintenance concepts and applications range from drill and practice exercises to engaging challenge problems Extension exercises placed near the end of each exercise set present a combination of Critical Thinking Cooperative Learning and Exploration exercises to provide further challenge and concept extension Take Note boxes in the margins alert students to a point requiring special attention or amplify a concept being developed Math Matters essay boxes throughout the text help motivate students by demonstrating how and why math is applicable to contemporary real life situations Accompanying graphs and figures help students visually interpret the material Point of Interest notes provide relevant contemporary information that helps motivate learning by giving context to concepts being presented Historical Notes offer additional context by highlighting important mathematical developments or famous individuals who have made major advancements in their fields Calculator Notes offer point of use tips on solving select problems with various kinds of calculators Each chapter concludes with a Chapter Summary that includes cross referenced Key Words and Essential Concepts and Chapter Review Exercises and Chapter Test Exercises with section references

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combines this with an in depth look at their aesthetics history and structure Whether using trigonometry and vectors to explain why Gothic arches are structurally superior to Roman arches or showing how simple ruler and compass constructions can produce sophisticated architectural details Alexander Hahn describes the points at which elementary mathematics and architecture intersect Beginning in prehistoric times Hahn proceeds to guide readers through the Greek Roman Islamic Romanesque Gothic Renaissance and modern styles He explores the unique features of the Pantheon the Hagia Sophia the Great Mosque of Cordoba the Duomo in Florence Palladio s villas and Saint Peter s Basilica as well as the U S Capitol Building Hahn celebrates the forms and structures of architecture made possible by mathematical achievements from Greek geometry the Hindu Arabic number system two and three dimensional coordinate geometry and calculus Along the way Hahn introduces groundbreaking architects including Brunelleschi Alberti da Vinci Bramante Michelangelo della Porta Wren Gaud Saarinen Utzon and Gehry Rich in detail this book takes readers on an expedition around the globe providing a deeper understanding of the mathematical forces at play in the world s most elegant buildings Custom Mathematical Excursions

Richard N. Aufmann, Joanne Lockwood, Richard D. Nation, Daniel K. Clegg, 2013-05-24

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