

$$\textcircled{1} \quad G = \left\{ \begin{bmatrix} x & x \\ x & x \end{bmatrix} \mid x \in \mathbb{R} \setminus \{0\} \right\}$$

a)  $\begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$  is identity element for  $G$ .

It is enough to prove that

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}$$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \\ x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}$$

b) Inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$  in  $G$ .

Let  $\begin{bmatrix} y & y \\ y & y \end{bmatrix}$  be the inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$

$$\text{Therefore } \begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} 2xy & 2xy \\ 2xy & 2xy \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

Hence  $2xy = \frac{1}{2}$ , that is,  $y = \frac{1}{4x}$ .  
The inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$  in  $G$  is  $\begin{bmatrix} \frac{1}{4x} & \frac{1}{4x} \\ \frac{1}{4x} & \frac{1}{4x} \end{bmatrix}$

# Solutions Abstract Algebra Hungerford

**Anthony S. Fauci**



## **Solutions Abstract Algebra Hungerford:**

*Abstract Algebra Manual* Ayman Badawi, 2004 This is the most current textbook in teaching the basic concepts of abstract algebra The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem Therefore this is a hands on manual where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned Each chapter begins with a statement of a major result in Group and Ring Theory followed by problems and solutions Contents Tools and Major Results of Groups Problems in Group Theory Tools and Major Results of Ring Theory Problems in Ring Theory Index *Discrete Mathematics Using Latin Squares* Charles F. Laywine, Gary L. Mullen, 1998-09-17 Over the past two decades research in the theory of Latin Squares has been growing at a fast pace and new significant developments have taken place This book offers a unique approach to various areas of discrete mathematics through the use of Latin Squares [Innovations in Teaching Abstract Algebra](#) Allen C. Hibbard, Ellen J. Maycock, 2002 **Abstract Algebra** Thomas W. Hungerford, 1997 *CRC Concise Encyclopedia of Mathematics* Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the *Elements of Modern Algebra* Jimmie Gilbert, Linda Gilbert, 2005 Helping to make the study of modern algebra more accessible this text gradually introduces and develops concepts through helpful features that provide guidance on the techniques of proof construction and logic analysis The text develops mathematical maturity for students by presenting the material in a theorem proof format with definitions and major results easily located through a user friendly format The treatment is rigorous and self contained in keeping with the objectives of training the student in the techniques of algebra and of providing a bridge to higher level mathematical courses *Applications of Spreadsheets in Education the Amazing Power of a Simple Tool* Mark A. Lau, Stephen J. Sugden, 2011-10-04 This e book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines science mathematics engineering business and general education The effort is aimed at collecting the works of prominent researchers and **Student Solutions Manual for Gallian's Contemporary Abstract Algebra** JOSEPH A. GALLIAN, 2021-06-15 Whereas many partial solutions and sketches for the odd numbered exercises appear in the book the Student Solutions Manual written by the author has comprehensive solutions for all odd numbered exercises and large number of even numbered exercises This Manual also offers many alternative solutions to those appearing in the text These will provide the student with a better understanding of the material This is the only available student solutions manual prepared by the author of Contemporary Abstract Algebra Tenth Edition and is designed to supplement that text Table of Contents Integers and Equivalence Relations 0 Preliminaries Groups 1 Introduction to Groups 2 Groups 3 Finite Groups Subgroups 4 Cyclic Groups 5 Permutation Groups 6 Isomorphisms 7 Cosets

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Biography Joseph A Gallian earned his PhD from Notre Dame In addition to receiving numerous national awards for his teaching and exposition he has served terms as the Second Vice President and the President of the MAA He has served on 40 national committees chairing ten of them He has published over 100 articles and authored six books Numerous articles about his work have appeared in the national news outlets including the New York Times the Washington Post the Boston Globe and Newsweek among many others

[The Bulletin of Mathematics Books](#), 1992

**Form Symmetries and Reduction of Order in Difference Equations** Hassan Sedaghat, 2011-05-24 Form Symmetries and Reduction of Order in Difference Equations presents a new approach to the formulation and analysis of difference equations in which the underlying space is typically an algebraic group In some problems and applications an additional algebraic or topological structure is assumed in order to define equations and obtain significant results about them Reflecting the author's past research experience the majority of examples involve equations in finite dimensional Euclidean spaces The book first introduces difference equations on groups building a foundation for later chapters and illustrating the wide variety of possible formulations and interpretations of difference equations that occur in concrete contexts The author then proposes a systematic method of decomposition for recursive difference equations that uses a semiconjugate relation between maps Focusing on large classes of difference equations he shows how to find the semiconjugate relations and accompanying factorizations of two difference equations with strictly lower orders The final chapter goes beyond semiconjugacy by extending the fundamental ideas based on form symmetries to nonrecursive difference equations With numerous examples and exercises this book is an ideal introduction to an exciting new domain in the area of difference equations It takes a fresh and all inclusive look at difference equations and develops a systematic procedure for examining how these equations are constructed and solved

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*Biographical Encyclopedia of Mathematicians* Donald R. Franceschetti,1999 Introduces the lives and works of 170 important mathematicians from around the world and throughout history

Subject Guide to Books in Print ,2001

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