

Objectives: To find the multiplicative inverse of a matrix
To use the multiplicative inverse of a matrix to solve a system of equations

FOCUS

Cryptographers use a variety of schemes for encoding messages. A simple substitution cipher was presented in Lesson 1.4. To ensure security of sensitive information, a cryptographer may also use matrix operations to encode messages.

A matrix-based cryptography system will usually replace a group of two or three letters in a row by an equal number of letters in the encoded message. By using matrix multiplication in the encoding process, an individual letter can be encoded as a different letter in different parts of the coded message. Such ciphers are designed to be difficult to decode since they require the use of the *inverse* of the encoding matrix. During World War II, Allied analysts such as Alan Turing (1912–1954) were able to break German codes produced by the Enigma machine using sophisticated decoding techniques.



Recall that the product of an identity matrix with any matrix A of equal order is the matrix A , that is, $AI = A = IA$. When the product of two square matrices A and B is the identity matrix, $AB = BA = I$, then A and B are *multiplicative inverses* of one another. The notation A^{-1} is used to denote the multiplicative inverse of matrix A . Thus, $B = A^{-1}$ and $A = B^{-1}$. Note that only square matrices can have multiplicative inverses. *Why?*

Example 1 Show that matrix B is the multiplicative inverse of matrix A .

$$A = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} \text{ and } B = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix}$$

$$AB = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} = \begin{bmatrix} -8 + 9 & 12 - 12 \\ -6 + 6 & 9 - 8 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$BA = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix} = \begin{bmatrix} -8 + 9 & -6 + 6 \\ 12 - 12 & 9 - 8 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

Since $AB = BA = I$, then A and B are inverses of one another. Thus,

$$A^{-1} = \begin{bmatrix} -2 & 3 \\ 3 & -4 \end{bmatrix} \text{ and } B^{-1} = \begin{bmatrix} 4 & 3 \\ 3 & 2 \end{bmatrix}.$$

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Calculus Ross L. Finney, 2003-06 This publication provides complete worked out solutions for quick review exercises and lesson explorations including cumulative review and appendices exercises **The Cumulative Book Index** ,1980 A world list of books in the English language **AP* Test-Prep Workbook** Ross L. Finney, Franklin Demana, Bert K. Waits, Daniel Kennedy, 2006-04-01 **The Publishers' Trade List Annual** ,1967 *Student Solutions Manual* Charles Henry Edwards, David E. Penney, 2002 *Introduction to Difference Equations* Samuel Goldberg, 1986-01-01 Exceptionally clear exposition of an important mathematical discipline and its applications to sociology economics and psychology Topics include calculus of finite differences difference equations matrix methods and more 1958 edition **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1979 **Answer Set Programming** Vladimir Lifschitz, 2019-08-29

Answer set programming ASP is a programming methodology oriented towards combinatorial search problems In such a problem the goal is to find a solution among a large but finite number of possibilities The idea of ASP came from research on artificial intelligence and computational logic ASP is a form of declarative programming an ASP program describes what is counted as a solution to the problem but does not specify an algorithm for solving it Search is performed by sophisticated software systems called answer set solvers Combinatorial search problems often arise in science and technology and ASP has found applications in diverse areas in historical linguistic in bioinformatics in robotics in space exploration in oil and gas industry and many others The importance of this programming method was recognized by the Association for the Advancement of Artificial Intelligence in 2016 when AI Magazine published a special issue on answer set programming The book introduces the reader to the theory and practice of ASP It describes the input language of the answer set solver CLINGO which was designed at the University of Potsdam in Germany and is used today by ASP programmers in many countries It includes numerous examples of ASP programs and present the mathematical theory that ASP is based on There are many exercises with complete solutions **ECAI 2016** G.A. Kaminka, M. Fox, P. Bouquet, 2016-08-24 Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe's premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of

the very latest innovations and developments in this field *Applied Mathematics and Modeling for Chemical Engineers* Richard G. Rice, Duong D. Do, James E. Maneval, 2023-03-07 Understand the fundamentals of applied mathematics with this up to date introduction Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas including engineering computer science and more As engineering science expands the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields New engineering processes and materials place ever increasing mathematical demands on new generations of engineers who are looking more and more to applied mathematics for an expanded toolkit Applied Mathematics and Modeling for Chemical Engineers provides this toolkit in a comprehensive and easy to understand introduction Combining classical analysis of modern mathematics with more modern applications it offers everything required to assess and solve mathematical problems in chemical engineering Now updated to reflect contemporary best practices and novel applications this guide promises to situate readers in a 21st century chemical engineering field in which direct knowledge of mathematics is essential Readers of the third edition of Applied Mathematics and Modeling for Chemical Engineers will also find Detailed treatment of ordinary differential equations ODEs and partial differential equations PDEs and their solutions New material concerning approximate solution methods like perturbation techniques and elementary numerical solutions Two new chapters dealing with Linear Algebra and Applied Statistics Applied Mathematics and Modeling for Chemical Engineers is ideal for graduate and advanced undergraduate students in chemical engineering and related fields as well as instructors and researchers seeking a handy reference **Solutions and Answer Manual for Basic Complex Analysis** Michael J. Hoffman, Jerrold E. Marsden, 1973

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
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