

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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