

### §3. MA TRẬN NGHỊCH ĐẢO

Trong bài này, bạn sẽ học

- Khái niệm ma trận khả nghịch và ma trận đảo của một ma trận vuông;
- Các tính chất ma trận khả nghịch;
- Điều kiện cần và đủ để một ma trận vuông khả nghịch;
- Hai cách cơ bản tìm ma trận đảo của một ma trận khả nghịch;
- Ứng dụng ma trận đảo để giải phương trình ma trận và hệ phương trình tuyến tính.

#### 3.1. Định nghĩa

Ma trận vuông  $A = [a_{ij}]_{n \times n}$  gọi là **khả nghịch** nếu có ma trận  $B = [b_{ij}]_{n \times n}$  sao cho

$$AB = I_n = BA$$

Khi đó  $B$  gọi là **ma trận nghịch đảo** hay **ma trận đảo** của  $A$ , ký hiệu là  $A^{-1}$ .

Vậy  $A$  khả nghịch khi và chỉ khi tồn tại  $A^{-1}$  và  $AA^{-1} = I_n = A^{-1}A$ .

**Ví dụ 1** Với  $A = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$ ,  $B = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix}$ . Ta có

$$AB = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = BA$$

Vậy  $A$  khả nghịch và  $A^{-1} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = B$ ;  $B$  khả nghịch và  $B^{-1} = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = A$ .

**Lưu ý** Với  $A = [a_{ij}]_{n \times n}$ ,  $B = [b_{ij}]_{n \times n}$ :  $AB = I_n$  khi và chỉ khi  $BA = I_n$ .

#### 3.2. Tính chất

❶ Ma trận đảo của ma trận  $A$  (nếu có) thì duy nhất và  $(A^{-1})^{-1} = A$

❷ Nếu  $A$  khả nghịch thì  $A^T$  cũng khả nghịch và  $(A^T)^{-1} = (A^{-1})^T$

❸ Nếu  $A = [a_{ij}]_{n \times n}$ ,  $B = [b_{ij}]_{n \times n}$ ,  $C = [c_{ij}]_{n \times n}$  khả nghịch thì tích  $AB$ ,  $ABC$  cũng khả nghịch và

$$(AB)^{-1} = B^{-1}A^{-1}; (ABC)^{-1} = C^{-1}B^{-1}A^{-1}$$

# Read Ndimma Ma Ch1 3

**Jin-Ying Zhang**



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### **Table of Contents Read Ndimma Ma Ch1 3**

1. Understanding the eBook Read Ndimma Ma Ch1 3
  - The Rise of Digital Reading Read Ndimma Ma Ch1 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Read Ndimma Ma Ch1 3
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Read Ndimma Ma Ch1 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Read Ndimma Ma Ch1 3
  - Personalized Recommendations
  - Read Ndimma Ma Ch1 3 User Reviews and Ratings
  - Read Ndimma Ma Ch1 3 and Bestseller Lists

5. Accessing Read Ndimma Ma Ch1 3 Free and Paid eBooks
  - Read Ndimma Ma Ch1 3 Public Domain eBooks
  - Read Ndimma Ma Ch1 3 eBook Subscription Services
  - Read Ndimma Ma Ch1 3 Budget-Friendly Options
6. Navigating Read Ndimma Ma Ch1 3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Read Ndimma Ma Ch1 3 Compatibility with Devices
  - Read Ndimma Ma Ch1 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Read Ndimma Ma Ch1 3
  - Highlighting and Note-Taking Read Ndimma Ma Ch1 3
  - Interactive Elements Read Ndimma Ma Ch1 3
8. Staying Engaged with Read Ndimma Ma Ch1 3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Read Ndimma Ma Ch1 3
9. Balancing eBooks and Physical Books Read Ndimma Ma Ch1 3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Read Ndimma Ma Ch1 3
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Read Ndimma Ma Ch1 3
  - Setting Reading Goals Read Ndimma Ma Ch1 3
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Read Ndimma Ma Ch1 3
  - Fact-Checking eBook Content of Read Ndimma Ma Ch1 3
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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