

Unit three: Determinants and Matrices

Solution

First : By using the elements of first column

$$\Delta = \begin{vmatrix} 4 & 3 \\ -1 & 0 \end{vmatrix} + 5 \begin{vmatrix} 2 & -1 \\ 4 & 3 \end{vmatrix} = (0 + 3) + 5(6 + 4) = 53$$

Second: By using the elements of first row

$$\Delta = \begin{vmatrix} 4 & 3 \\ -1 & 0 \end{vmatrix} - 2 \begin{vmatrix} 0 & 3 \\ 5 & 0 \end{vmatrix} - \begin{vmatrix} 0 & 4 \\ 5 & -1 \end{vmatrix} = (0 + 3) - 2(0 - 15) - (0 - 20) = 3 + 30 + 20 = 53$$

Try to solve

- ② Find the value of the determinant $\begin{vmatrix} 2 & 3 & 1 \\ 3 & 1 & 2 \\ 1 & 2 & 3 \end{vmatrix}$ using the elements of the first row once and the elements of the second column once more.

Property (3)

The value of the determinant vanishes in each of the following two cases

First: if all the elements of any row (column) in any determinant equal zero, then the value of the determinant = 0

$$\text{The value of the determinant } \begin{vmatrix} a_{11} & a_{21} & a_{31} \\ \text{zero} & \text{zero} & \text{zero} \\ a_{13} & a_{23} & a_{33} \end{vmatrix} = 0$$

This can be proved by expanding the determinant using the elements of second row, then: $\Delta = 0$

Second: If the corresponding elements of any two rows (columns) in any determinant are equal, then the value of the determinant = zero

$$\text{i.e. } \begin{vmatrix} c & b & c \\ c & b & c \\ x & y & z \end{vmatrix} = 0$$

Since the corresponding elements of the first and second rows are equal (prove that).

Example

- ③ Without expanding the determinant, prove that $\begin{vmatrix} 1 & -5 & 8 \\ 3 & 7 & 9 \\ 1 & -5 & 8 \end{vmatrix} = 0$

Solution

In the determinant, we find $R_3 = R_1$ \therefore The value of the determinant = 0

Determinants Matrices 9ed

Kokuritsu Kokkai Toshokan (Japan)



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Table of Contents Determinants Matrices 9ed

1. Understanding the eBook Determinants Matrices 9ed
 - The Rise of Digital Reading Determinants Matrices 9ed
 - Advantages of eBooks Over Traditional Books
2. Identifying Determinants Matrices 9ed
 - 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 Determinants Matrices 9ed
 - User-Friendly Interface
4. Exploring eBook Recommendations from Determinants Matrices 9ed
 - Personalized Recommendations
 - Determinants Matrices 9ed User Reviews and Ratings
 - Determinants Matrices 9ed and Bestseller Lists
5. Accessing Determinants Matrices 9ed Free and Paid eBooks
 - Determinants Matrices 9ed Public Domain eBooks
 - Determinants Matrices 9ed eBook Subscription Services
 - Determinants Matrices 9ed Budget-Friendly Options

6. Navigating Determinants Matrices 9ed eBook Formats
 - ePub, PDF, MOBI, and More
 - Determinants Matrices 9ed Compatibility with Devices
 - Determinants Matrices 9ed Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Determinants Matrices 9ed
 - Highlighting and Note-Taking Determinants Matrices 9ed
 - Interactive Elements Determinants Matrices 9ed
8. Staying Engaged with Determinants Matrices 9ed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Determinants Matrices 9ed
9. Balancing eBooks and Physical Books Determinants Matrices 9ed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Determinants Matrices 9ed
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Determinants Matrices 9ed
 - Setting Reading Goals Determinants Matrices 9ed
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Determinants Matrices 9ed
 - Fact-Checking eBook Content of Determinants Matrices 9ed
 - 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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