

3

Determinants

3.1 SOLUTIONS

Notes: Some exercises in this section provide practice in computing determinants, while others allow the student to discover the properties of determinants which will be studied in the next section. Determinants are developed through the cofactor expansion, which is given in Theorem 1. Exercises 33–36 in this section provide the first step in the inductive proof of Theorem 3 in the next section.

1. Expanding along the first row:

$$\begin{vmatrix} 3 & 0 & 4 \\ 2 & 3 & 2 \\ 0 & 5 & -1 \end{vmatrix} = 3 \begin{vmatrix} 3 & 2 \\ 5 & -1 \end{vmatrix} - 0 \begin{vmatrix} 2 & 2 \\ 0 & -1 \end{vmatrix} + 4 \begin{vmatrix} 2 & 3 \\ 0 & 5 \end{vmatrix} = 3(-13) + 4(10) = 1$$

Expanding along the second column:

$$\begin{vmatrix} 3 & 0 & 4 \\ 2 & 3 & 2 \\ 0 & 5 & -1 \end{vmatrix} = (-1)^{1+2} \cdot 0 \begin{vmatrix} 2 & 2 \\ 0 & -1 \end{vmatrix} + (-1)^{2+2} \cdot 3 \begin{vmatrix} 3 & 4 \\ 0 & -1 \end{vmatrix} + (-1)^{3+2} \cdot 5 \begin{vmatrix} 3 & 4 \\ 2 & 2 \end{vmatrix} = 3(-3) - 5(-2) = 1$$

2. Expanding along the first row:

$$\begin{vmatrix} 0 & 5 & 1 \\ 4 & -3 & 0 \\ 2 & 4 & 1 \end{vmatrix} = 0 \begin{vmatrix} -3 & 0 \\ 4 & 1 \end{vmatrix} - 5 \begin{vmatrix} 4 & 0 \\ 2 & 1 \end{vmatrix} + 1 \begin{vmatrix} 4 & -3 \\ 2 & 4 \end{vmatrix} = -5(4) + 1(22) = 2$$

Expanding along the second column:

$$\begin{vmatrix} 0 & 5 & 1 \\ 4 & -3 & 0 \\ 2 & 4 & 1 \end{vmatrix} = (-1)^{1+2} \cdot 5 \begin{vmatrix} 4 & 0 \\ 2 & 1 \end{vmatrix} + (-1)^{2+2} \cdot (-3) \begin{vmatrix} 0 & 1 \\ 2 & 1 \end{vmatrix} + (-1)^{3+2} \cdot 4 \begin{vmatrix} 0 & 1 \\ 4 & 0 \end{vmatrix} = -5(4) - 3(-2) - 4(-4) = 2$$

3. Expanding along the first row:

$$\begin{vmatrix} 2 & -4 & 3 \\ 3 & 1 & 2 \\ 1 & 4 & -1 \end{vmatrix} = 2 \begin{vmatrix} 1 & 2 \\ 4 & -1 \end{vmatrix} - (-4) \begin{vmatrix} 3 & 2 \\ 1 & -1 \end{vmatrix} + 3 \begin{vmatrix} 3 & 1 \\ 1 & 4 \end{vmatrix} = 2(-9) + 4(-5) + (3)(13) = -5$$

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Ying-Ying Zheng



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Table of Contents David C Lay Solutions Manual 4th Ed

1. Understanding the eBook David C Lay Solutions Manual 4th Ed
 - The Rise of Digital Reading David C Lay Solutions Manual 4th Ed
 - Advantages of eBooks Over Traditional Books
2. Identifying David C Lay Solutions Manual 4th Ed
 - 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 David C Lay Solutions Manual 4th Ed
 - User-Friendly Interface
4. Exploring eBook Recommendations from David C Lay Solutions Manual 4th Ed
 - Personalized Recommendations
 - David C Lay Solutions Manual 4th Ed User Reviews and Ratings
 - David C Lay Solutions Manual 4th Ed and Bestseller Lists

5. Accessing David C Lay Solutions Manual 4th Ed Free and Paid eBooks
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 - David C Lay Solutions Manual 4th Ed eBook Subscription Services
 - David C Lay Solutions Manual 4th Ed Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - David C Lay Solutions Manual 4th Ed Compatibility with Devices
 - David C Lay Solutions Manual 4th Ed Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of David C Lay Solutions Manual 4th Ed
 - Highlighting and Note-Taking David C Lay Solutions Manual 4th Ed
 - Interactive Elements David C Lay Solutions Manual 4th Ed
8. Staying Engaged with David C Lay Solutions Manual 4th Ed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers David C Lay Solutions Manual 4th Ed
9. Balancing eBooks and Physical Books David C Lay Solutions Manual 4th Ed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection David C Lay Solutions Manual 4th Ed
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine David C Lay Solutions Manual 4th Ed
 - Setting Reading Goals David C Lay Solutions Manual 4th Ed
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of David C Lay Solutions Manual 4th Ed
 - Fact-Checking eBook Content of David C Lay Solutions Manual 4th Ed
 - 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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