

CHAPTER 1 □ MATLAB EXERCISES

1. Consider the linear system of Example 7 in Section 1.2.

$$\begin{aligned}x - 2y + 3z &= 9 \\ -x + 3y &= -4 \\ 2x - 5y + 5z &= 17\end{aligned}$$

- (a) Use the MATLAB command `rref` to solve the system.
 (b) Let A be the coefficient matrix, and B be the right-hand side of the system.

$$A = \begin{bmatrix} 1 & -2 & 3 \\ -1 & 3 & 0 \\ 2 & -5 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 9 \\ -4 \\ 17 \end{bmatrix}$$

Use the MATLAB command `A\B` to solve the system.

2. Enter the matrix

$$A = \begin{bmatrix} -3 & 2 & 4 & 5 & 1 \\ 3 & 0 & 2 & -2 & 0 \\ -9 & 4 & 6 & 12 & 2 \end{bmatrix}$$

Use the MATLAB command `rref` to find the reduced row-echelon form of A . What is the solution to the linear system represented by the augmented matrix A ?

3. Solve the linear system

$$\begin{aligned}16x - 120y + 240z - 140w &= -4 \\ -120x + 1200y - 2700z + 1680w &= 60 \\ 240x - 2700y + 6480z - 4200w &= -180 \\ -140x + 1680y - 4200z + 2800w &= 140\end{aligned}$$

You can display more significant digits of the answer by entering `format long` before solving the system. Return to the standard format by entering `format short`.

4. Use the MATLAB command
- `rref`
- to determine which of the following matrices are row-equivalent to

$$B = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}$$

$$(a) \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 0 & -1 & -2 \\ 0 & 1 & 2 & 3 \end{bmatrix}$$

$$(b) \begin{bmatrix} 1 & 3 & 2 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}$$

$$(c) \begin{bmatrix} 12 & 11 & 10 & 9 \\ 4 & 3 & 2 & 1 \\ 8 & 7 & 6 & 5 \end{bmatrix}$$

5. Let
- A
- be the coefficient matrix, and
- B
- the right-hand side of the linear system of equations

$$\begin{aligned}3x + 3y + 12z &= 6 \\ x + y + 4z &= 2 \\ 2x + 5y + 20z &= 10 \\ -x + 2y + 8z &= 4.\end{aligned}$$

Enter the matrices A and B , and form the augmented matrix C for this system by using the MATLAB command $C = [A \ B]$. Solve the system using `rref`.

6. The MATLAB command
- `polyfit`
- allows you to fit a polynomial of degree
- $n - 1$
- to a set of
- n
- data points in the plane:

$$(x_1, y_1), (x_2, y_2), \dots, (x_n, y_n).$$

Find the fourth-degree polynomial that fits the five data points of Example 2 in Section 1.3 by letting

$$x = \begin{bmatrix} -2 \\ -1 \\ 0 \\ 1 \\ 2 \end{bmatrix} \quad y = \begin{bmatrix} 3 \\ 5 \\ 1 \\ -4 \\ 10 \end{bmatrix}$$

and entering the MATLAB command `polyfit(x,y,4)`.

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Table of Contents Matlab R Exercises For Chapters 14 Colorado State

1. Understanding the eBook Matlab R Exercises For Chapters 14 Colorado State
 - The Rise of Digital Reading Matlab R Exercises For Chapters 14 Colorado State
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab R Exercises For Chapters 14 Colorado State
 - 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 Matlab R Exercises For Chapters 14 Colorado State
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab R Exercises For Chapters 14 Colorado State
 - Personalized Recommendations
 - Matlab R Exercises For Chapters 14 Colorado State User Reviews and Ratings
 - Matlab R Exercises For Chapters 14 Colorado State and Bestseller Lists
5. Accessing Matlab R Exercises For Chapters 14 Colorado State Free and Paid eBooks

- Matlab R Exercises For Chapters 14 Colorado State Public Domain eBooks
 - Matlab R Exercises For Chapters 14 Colorado State eBook Subscription Services
 - Matlab R Exercises For Chapters 14 Colorado State Budget-Friendly Options
6. Navigating Matlab R Exercises For Chapters 14 Colorado State eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab R Exercises For Chapters 14 Colorado State Compatibility with Devices
 - Matlab R Exercises For Chapters 14 Colorado State Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab R Exercises For Chapters 14 Colorado State
 - Highlighting and Note-Taking Matlab R Exercises For Chapters 14 Colorado State
 - Interactive Elements Matlab R Exercises For Chapters 14 Colorado State
 8. Staying Engaged with Matlab R Exercises For Chapters 14 Colorado State
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab R Exercises For Chapters 14 Colorado State
 9. Balancing eBooks and Physical Books Matlab R Exercises For Chapters 14 Colorado State
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab R Exercises For Chapters 14 Colorado State
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Matlab R Exercises For Chapters 14 Colorado State
 - Setting Reading Goals Matlab R Exercises For Chapters 14 Colorado State
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Matlab R Exercises For Chapters 14 Colorado State
 - Fact-Checking eBook Content of Matlab R Exercises For Chapters 14 Colorado State
 - 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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