

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

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

$$(a) \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 0 & -1 & -2 \\ 0 & 1 & 2 & 3 \end{bmatrix} \quad (b) \begin{bmatrix} 1 & 3 & 2 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix} \quad (c) \begin{bmatrix} 12 & 11 & 10 & 9 \\ 4 & 3 & 2 & 1 \\ 8 & 7 & 6 & 5 \end{bmatrix}$$

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)**.

Matlab R Exercises For Chapters 14 Colorado State

Raffaela Di Napoli



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MATLAB"/Simulink" for Engineering Problem Solving and Numerical Analysis Sulaymon L. Eshkabilov,2016-09-30

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THIRUVIKRAMAN,2022-03-31 This book provides an introduction to the computational methods commonly employed by physicists and engineers The book discusses the details of the numerical algorithms involved and also provides MATLAB code for their implementation Applications of numerical methods to various physical systems including nonlinear systems and fractals are also discussed Each chapter has a number of solved examples and end of chapter exercises Solutions to most of the exercises have also been included The book is suitable for undergraduates in physics or engineering The methods discussed and some of the examples will also be useful for other scientists and engineers who wish to learn the basics of computational numerical methods for solving problems Key Features Comprehensive coverage of basic theory Accompanying MATLAB programs Applications of computational methods to various areas of physics Worked examples and end of chapter problems Enhanced with animation and sound files

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