

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)`.

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