

# Solutions to All Exercises

## 1

### Systems of Linear Equations and Matrices

#### Exercise Set 1.1

In Section 1.1 of the text, Gaussian Elimination is used to solve a linear system. This procedure utilizes three operations that when applied to a linear system result in a new system that is equivalent to the original. Equivalent means that the linear systems have the same solutions. The three operations are:

- Interchange two equations.
- Multiply any equation by a nonzero constant.
- Add a multiple of one equation to another.

When used judiciously these three operations allow us to reduce a linear system to a triangular linear system, which can be solved. A linear system is consistent if there is at least one solution and is inconsistent if there are no solutions. Every linear system has either a unique solution, infinitely many solutions or no solutions. For example, the triangular linear systems

$$\begin{cases} x_1 - x_2 + x_3 = 2 \\ x_2 - 2x_3 = -1 \\ x_3 = 2 \end{cases}, \begin{cases} x_1 - 2x_2 + x_3 = 2 \\ -x_2 + 2x_3 = -3 \\ x_3 = 2 \end{cases}, \begin{cases} 2x_1 + x_2 = 1 \\ x_2 = 2 \\ 0 = 4 \end{cases}$$

have a unique solution, infinitely many solutions, and no solutions, respectively. In the second linear system, the variable  $x_3$  is a free variable, and once assigned any real number the values of  $x_1$  and  $x_2$  are determined. In this way the linear system has infinitely many solutions. If a linear system has the same form as the second system, but also has the additional equation  $0 = 0$ , then the linear system will still have free variables. The third system is inconsistent since the last equation  $0 = 4$  is impossible. In some cases, the conditions on the right hand side of a linear system are not specified. Consider for example, the linear system

$$\begin{cases} -x_1 - x_2 = a \\ 2x_1 + 2x_2 + x_3 = b \\ 2x_3 = c \end{cases} \text{ which is equivalent to } \begin{cases} -x_1 - x_2 = a \\ x_3 = b + 2a \\ 0 = c - 2b - 4a \end{cases}.$$

This linear system is consistent only for values  $a, b$  and  $c$  such that  $c - 2b - 4a = 0$ .

## Solutions to Exercises

1. Applying the given operations we obtain the equivalent triangular system

$$\begin{cases} x_1 - x_2 - 2x_3 = 3 \\ -x_1 + 2x_2 + 3x_3 = 1 \\ 2x_1 - 2x_2 - 2x_3 = -2 \end{cases} \xrightarrow{E_1 + E_2 \rightarrow E_1} \begin{cases} x_1 - x_2 - 2x_3 = 3 \\ x_2 + x_3 = 4 \\ 2x_1 - 2x_2 - 2x_3 = -2 \end{cases} \xrightarrow{(-2)E_1 + E_3 \rightarrow E_3}$$

# Introduction To Linear Algebra Defranza Solution Manual

**L Cohen**



## **Introduction To Linear Algebra Defranza Solution Manual:**

This book delves into Introduction To Linear Algebra Defranza Solution Manual. Introduction To Linear Algebra Defranza Solution Manual is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Introduction To Linear Algebra Defranza Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Introduction To Linear Algebra Defranza Solution Manual
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    - Chapter 3: Introduction To Linear Algebra Defranza Solution Manual in Everyday Life
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  3. In chapter 2, this book will delve into the foundational concepts of Introduction To Linear Algebra Defranza Solution Manual. The second chapter will elucidate the essential principles that must be understood to grasp Introduction To Linear Algebra Defranza Solution Manual in its entirety.
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