

1. Suppose the numbers x, y, z satisfy the following equations, where a is some number:

$$\begin{aligned}x + y + z &= 4 + a, \\2x + y &= 3 + a, \\x - y - 2z &= -4.\end{aligned}$$

Use row operations to determine the values of x, y and z in terms of a .

We have

$$\underbrace{\begin{pmatrix} 1 & 1 & 1 \\ 2 & 1 & 0 \\ 1 & -1 & -2 \end{pmatrix}}_A \underbrace{\begin{pmatrix} x \\ y \\ z \end{pmatrix}}_X = \underbrace{\begin{pmatrix} 4+a \\ 3+a \\ -4 \end{pmatrix}}_B, \text{ so}$$

$$(A|B) = \left(\begin{array}{ccc|c} 1 & 1 & 1 & 4+a \\ 2 & 1 & 0 & 3+a \\ 1 & -1 & -2 & -4 \end{array} \right) \xrightarrow{\substack{R_2 \rightarrow R_2 - 2R_1 \\ R_3 \rightarrow R_3 - R_1}} \left(\begin{array}{ccc|c} 1 & 1 & 1 & 4+a \\ 0 & -1 & -2 & -5-a \\ 0 & -2 & -3 & -8-a \end{array} \right)$$

$$\xrightarrow{R_2 \rightarrow R_2(-1)} \left(\begin{array}{ccc|c} 1 & 1 & 1 & 4+a \\ 0 & 1 & 2 & 5+a \\ 0 & -2 & -3 & -8-a \end{array} \right) \xrightarrow{R_3 \rightarrow R_3 + 2R_2} \left(\begin{array}{ccc|c} 1 & 1 & 1 & 4+a \\ 0 & 1 & 2 & 5+a \\ 0 & 0 & 1 & 2+a \end{array} \right),$$

so $z = 2+a$, $y = 5+a - 2(2+a) = 1-a$, and

$$x = 4+a - \underbrace{(1-a)}_y - \underbrace{(2+a)}_z = 1+a.$$

Mt105a Mathematics 1

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Table of Contents Mt105a Mathematics 1

1. Understanding the eBook Mt105a Mathematics 1
 - The Rise of Digital Reading Mt105a Mathematics 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mt105a Mathematics 1
 - 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 Mt105a Mathematics 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mt105a Mathematics 1
 - Personalized Recommendations
 - Mt105a Mathematics 1 User Reviews and Ratings
 - Mt105a Mathematics 1 and Bestseller Lists
5. Accessing Mt105a Mathematics 1 Free and Paid eBooks
 - Mt105a Mathematics 1 Public Domain eBooks
 - Mt105a Mathematics 1 eBook Subscription Services
 - Mt105a Mathematics 1 Budget-Friendly Options
6. Navigating Mt105a Mathematics 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mt105a Mathematics 1 Compatibility with Devices
 - Mt105a Mathematics 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mt105a Mathematics 1
 - Highlighting and Note-Taking Mt105a Mathematics 1
 - Interactive Elements Mt105a Mathematics 1
8. Staying Engaged with Mt105a Mathematics 1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mt105a Mathematics 1
9. Balancing eBooks and Physical Books Mt105a Mathematics 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mt105a Mathematics 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mt105a Mathematics 1
- Setting Reading Goals Mt105a Mathematics 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mt105a Mathematics 1
- Fact-Checking eBook Content of Mt105a Mathematics 1
 - 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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