

# Project One Template

## MAT350: Applied Linear Algebra

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6/2/2024

### Problem 1

Develop a system of linear equations for the network by writing an equation for each router (A, B, C, D, and E). Make sure to write your final answer as  $Ax=b$  where  $A$  is the  $5 \times 5$  coefficient matrix,  $x$  is the  $5 \times 1$  vector of unknowns, and  $b$  is a  $5 \times 1$  vector of constants.

#### Solution:

For each router we will write an equation for all of the incoming connections on one side, and the outgoing connections on the other side, then rewrite so that all of the variables are on one side and the constants are on the other side.

**Router A** has 100 Mbps incoming, and  $x_1$  and  $x_2$  outgoing.  $x_1 + x_2 = 100$

**Router B** has  $x_1$  and  $x_2$  incoming, and  $x_3$  and  $x_4$  outgoing.  $x_3 + x_4 = x_1 + x_2$ . Simplified for the matrix we get  $-x_1 - x_2 + x_3 + x_4 = 0$

**Router C** has 50 Mbps incoming and  $x_2$  incoming, then  $x_3$  and  $x_5$  outgoing.  $x_3 + x_5 = x_2 + 50$ . Simplified we get  $-x_2 + x_3 + x_5 = 50$

**Router D** has  $x_3$  and  $x_5$  incoming, then  $x_4$  and 120 Mbps outgoing.  $x_4 + 120 = x_3 + x_5$ . Simplified we get  $x_3 - x_4 - x_5 = -120$

**Router E** has  $x_3$ ,  $x_4$ , and  $x_5$  incoming, then  $x_4$  outgoing.  $x_4 = x_3 + x_4 + x_5$ . Simplified we get  $-x_3 - x_5 + x_4 - x_4 = 0$

The matrix can be formed by using  $Ax=b$

$$\begin{bmatrix} 1 & 2 & 0 & 0 & 0 \\ -1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & -1 & -1 & 1 & -1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \end{bmatrix} = \begin{bmatrix} 100 \\ 0 \\ 50 \\ -120 \\ 0 \end{bmatrix}$$

### Problem 2

Use MATLAB to construct the augmented matrix  $[A \ b]$  and then perform row reduction using the `rref()` function. Write out your **reduced matrix** and **identify the free and basic variables of the system**.

#### Solution:

# Applied Linear Algebra And Linear Algebra Labs With Matlab

**Hugo Woerdeman**



## **Applied Linear Algebra And Linear Algebra Labs With Matlab:**

**Linear Algebra LABS with MATLAB** David R. Hill, David E. Zitarella, 1996      Proceedings of the Fifth SIAM Conference on Applied Linear Algebra John Gregg Lewis, 1994-01-01      Exploring Linear Algebra Crista Arangala, 2025-02-26 This text focuses on the primary topics in a first course in Linear Algebra. The author includes additional advanced topics related to data analysis, singular value decomposition, and connections to differential equations. This is a lab text that would lead a class through Linear Algebra using Mathematica demonstrations and Mathematica coding. The book includes interesting examples embedded in the projects. Examples include the discussions of Lights Out, Nim, the Hill Cipher, and a variety of relevant data science projects. The 2nd Edition contains Additional Theorems and Problems for students to prove/disprove; these act as theory exercises at the end of most sections of the text. Additional sections that support Data Analytics techniques such as Kronecker sums and products and LU decomposition of the Vandermonde matrix. Updated and expanded end of chapter projects. Instructors and students alike have enjoyed this popular book as it offers the opportunity to add Mathematica to the Linear Algebra course. I would definitely use the book specifically the projects at the end of each section to motivate undergraduate research. Nick Luke, North Carolina A T State University      *Applied Abstract Algebra with Maple™ and MATLAB* Richard Klima, Neil Sigmon, Ernest Stitzinger, 2015-11-18 Applied Abstract Algebra with Maple™ and MATLAB provides an in-depth introduction to real-world abstract algebraic problems. This popular textbook covers a variety of topics including block designs, coding theory, cryptography, and counting techniques including Polya's and Burnside's theorems. The book also includes a concise review of all prerequisites.      **Linear Algebra With Machine Learning and Data** Crista Arangala, 2023-05-09 This book takes a deep dive into several key linear algebra subjects as they apply to data analytics and data mining. The book offers a case study approach where each case will be grounded in a real-world application. This text is meant to be used for a second course in applications of Linear Algebra to Data Analytics, with a supplemental chapter on Decision Trees and their applications in regression analysis. The text can be considered in two different but overlapping general data analytics categories: clustering and interpolation. Knowledge of mathematical techniques related to data analytics and exposure to interpretation of results within a data analytics context are particularly valuable for students studying undergraduate mathematics. Each chapter of this text takes the reader through several relevant case studies using real-world data. All data sets, as well as Python and R syntax, are provided to the reader through links to Github documentation. Following each chapter is a short exercise set in which students are encouraged to use technology to apply their expanding knowledge of linear algebra as it is applied to data analytics. A basic knowledge of the concepts in a first Linear Algebra course is assumed; however, an overview of key concepts is presented in the Introduction and as needed throughout the text.      Exploring Linear Algebra Crista Arangala, 2019-03-07 Exploring Linear Algebra Labs and Projects with MATLAB is a hands-on lab manual that can be used by students and instructors in classrooms every day to

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*Advanced Linear Algebra* Hugo Woerdeman,2015-12-23 Advanced Linear Algebra features a student friendly approach to the theory of linear algebra The author s emphasis on vector spaces over general fields with corresponding

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