Linear Algebra Study Guide

1.) Find the determinant of each of the following.

a.) $\begin{pmatrix} 8 & 1 & 6 \\ 4 & 0 & 3 \\ 3 & -2 & 5 \end{pmatrix}$

b.) $\begin{pmatrix} 2 & 3 & -4 \\ 4 & 0 & 5 \\ 5 & 1 & 6 \end{pmatrix}$

c.) $\begin{pmatrix} 3 & 5 & -8 & 4 \\ 0 & -2 & 3 & -7 \\ 0 & 0 & 1 & 5 \\ 0 & 0 & 0 & 2 \end{pmatrix}$

2.) Find the inverse of each.

a.) $\begin{pmatrix} 1 & 3 & 2 \\ 1 & 1 & 1 \\ 2 & 3 & 1 \end{pmatrix}$

b.) $\begin{pmatrix} 4 & 3 & 1 \\ 6 & 5 & 2 \\ 8 & 6 & 3 \end{pmatrix}$

3.) Use the inverse to solve the equations.

a.) $5x_1 + 7x_2 = 3$
$2x_1 + 4x_2 = 1$

b.) $x_1 + x_2 = 3$
$-3x_1 + 2x_3 = 0$
$x_2 - 2x_3 = 2$

4.) Let $A = \begin{pmatrix} 1 & 5 & 7 \\ 2 & 3 & 8 \\ 0 & 6 & 4 \end{pmatrix}$ and $B = \begin{pmatrix} 7 & 2 & -3 \\ 5 & -8 & 1 \end{pmatrix}$

Compute AB^T

5.) Determine if the sets are Linear Independent

a.) $\begin{bmatrix} 2 \\ -2 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ -3 \\ 2 \end{bmatrix} \begin{bmatrix} -7 \\ 5 \\ 4 \end{bmatrix}$

b.) $\begin{bmatrix} 1 \\ 2 \\ -3 \end{bmatrix} \begin{bmatrix} -4 \\ -5 \\ 6 \end{bmatrix}$

6.) Let W be the set of all vectors of the form $\begin{pmatrix} s + 3t \\ s - t \\ 2s - t \\ 4t \end{pmatrix}$

Find a vector u and v such that W = span(u,v)

Linear Algebra Study Guide

David C. Lay

Linear Algebra Study Guide:

A First Course in Linear Algebra Mohammed K A Kaabar,2014-10-20 In this book there are five chapters Systems of Linear Equations Vector Spaces Homogeneous Systems Characteristic Equation of Matrix and Matrix Dot Product It is also included exercises at the end of each chapter above to let students practice additional sets of problems other than examples and they can also check their solutions to some of these exercises by looking at Answers to Odd Numbered Exercises section at the end of this book This book is very useful for college students who studied Calculus I and other students who want to review some linear algebra concepts before studying a second course in linear algebra *Linear Algebra* Noah Ras,2016-07-29 In this study guide you will learn what matrices are and about their various uses solving systems of equations transforming shapes and vectors and representing real world situations Learn how to add subtract and multiply matrices and find the inverses of matrices *Study Guide with Selected Solutions for Linear Algebra with Applications* Jeffrey Holt,2013-04-19 The Study Guide with Student Solutions to accompany Linear Algebra with Applications by Jeffrey Holt includes resources for students and solutions to selected exercises in the book *Linear Algebra and Its Applications* David C. Lay,2003 **Student Study Guide for Linear Algebra with Applications** Steven Leon,2014-07-24 **Study Guide for Linear Algebra and Its Applications** DAVID C. LAY,Steven R. Lay,Judi J. McDonald,2020-04-30 **Selected Topics in Linear Algebra: Study Guide** Herbert I. Gross,1972 Matrix Analysis and Applied Linear Algebra Study and Solutions Guide Carl D. Meyer,2023-05-18 This second edition has been almost completely rewritten to create a textbook designed to provide flexibility for nearly any desired degree of rigor and depth of coverage This is achieved with a linear development ensuring that material at any point is not dependent on subsequent developments and by means of graduated levels of sophistication The text moves from traditional first principles in early chapters to deeper topics involving both theory and applications in later chapters This allows for a traditional single term course based on roughly half of the text without having to refer to more advanced topics while the later portion of the book facilitates a seamless two term course covering the range of theory and applications generally reserved for discussions beyond fundamentals Rigor is present throughout but the level is adaptable because all major theorems have ample accompanying discussions and illustrative examples designed to convince readers and students of the validity of a result without a deep dive into the proof Moreover there is an expanded emphasis on both the depth and breadth of applications that are designed to illuminate the utility of the subject across broad areas of science and engineering At major junctures there are photos and historical remarks concerning the personalities who created and contributed to the subject s development Throughout there are carefully constructed exercises ranging from easy to moderately challenging to difficult many of which condition students for topics that follow **Studyguide for Linear Algebra** Cram101 Textbook Reviews,2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your

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