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24b. Quiz 2 Review

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Exam 2, Solutions 1. Let A be the matrix $\begin{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \\ 0 & 2 & 2 \end{bmatrix}$

(a) (4 points) If A is the matrix for a linear transformation $T : \mathbb{R}^n \rightarrow \mathbb{R}^m$, what are m and n ? Answer: $m = 4$, $n = 3$.

(b) (8 points) Find a basis for $\text{im}A$. Answer: Row-reduce A : $\begin{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \\ 0 & 2 & 2 \end{bmatrix} = \begin{bmatrix} 1 & 2 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \end{bmatrix}$

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?1 0 2 ?2 =? 1 2 0 0 2 ?2 0 1 ?1 0 2 ?2

MATH15a: Linear Algebra Exam 2, Solutions

Spring 2020 Linear Algebra Exam 2

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MATH 2120 – Midterm Exam #2 (SOLUTIONS) 20 March 2014 /8

Problem 5: Let $T(x)$ be the linear transformation on \mathbb{R}^2 that performs

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clockwise rotation by 30° followed by reflection across the y -axis. (a) Find the matrix A such that $T(x) = Ax$.

MATH 2120 Linear Algebra I

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Algebra I Instructor: Richard Taylor

MIDTERM EXAM #2 SOLUTIONS 20

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 4. Justify your answers.
 5. Clearly show your work.
- MATH ...

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Let P denote the vector space of all polynomials, and let P_2 be the set of all polynomials of degree at most 2;

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that is, $P_2 = \{p(t) : p(t) = a_0 + a_1t + a_2t^2; a_0, a_1, a_2 \text{ real}\}$. (a) Show that P_2 is a subspace of P . (b) Using coordinate vectors, show that the set B given by $B = \{f_1 + t^2, 2t + 3t^2, 1 + 2t + 4t^2\}$ is a basis for P_2 .

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Problems and Solutions Igor Yanovsky
1. Linear Algebra Igor Yanovsky, 2005
2 Disclaimer: This handbook is
intended to assist graduate students

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with qualifying examination preparation. Please be aware, however, that the handbook might contain,

Linear Algebra: Graduate Level Problems and Solutions

2. Let A denote the matrix $A = \begin{pmatrix} 3 & 2 \\ 1 & 2 \end{pmatrix}$. Let $T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be the linear transformation given by $T(\vec{x}) = A\vec{x}$. (a) (5 points) Describe T geometrically. Answer: For any angle θ , the matrix for counterclockwise rotation by θ is $\begin{pmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{pmatrix}$. Since $\cos(5/6) = 1/2$ and $\sin(5/6) = \sqrt{3}/2$, we see that T is rotation by $5/6 = 150^\circ$.

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Done Right

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Linear Algebra Exam Problems | Problems in Mathematics
2 Solution: Using the "standard" basis $1, x, x^2$, the vectors of B are the columns of the matrix $A = \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 1 \\ 0 & 1 & 1 \end{pmatrix}$. It thus suffices to check that the three columns of A are lin. independent. This is equivalent to the matrix having 3 pivots, non-zero determinant, etc. Pick your favorite condition, and check it. 4

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The only solution to 2. this linear system is $x = (A^{-1})^2 b = A^{-1}(A^{-1}b) = 2 \begin{pmatrix} 4 \\ 2 \\ 3 \\ 3 \end{pmatrix}$

$\begin{pmatrix} 2 & 4 & 2 & 3 \\ 3 & 2 & 1 & 0 \\ 1 & 1 & 1 & 3 \\ 5 & 0 & 2 & 4 \end{pmatrix} \begin{pmatrix} 2 \\ 4 \\ 2 \\ 3 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \\ 0 \\ 1 \end{pmatrix} \begin{pmatrix} 1 & 1 & 3 & 5 \\ 2 & 4 & 0 & 1 \\ 1 & 3 & 5 & 1 \end{pmatrix} A = \begin{pmatrix} 2 & 4 & 2 & 3 \\ 2 & 1 & 0 & 1 \\ 1 & 1 & 3 & 5 \\ 2 & 4 & 0 & 1 \end{pmatrix} \begin{pmatrix} 0 & 3 & 5 \\ 2 & 4 & 3 \\ 1 & 1 & 3 \end{pmatrix}$

5. Suppose A is a 4×3 matrix and that the linear system $Ax = b$ has exactly one solution for some 4-vector b .

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Write the vector $u = (1, 2, 5) \in \mathbb{R}^3$ as a linear combination of the vectors $u_1 = (1, 1, 1)$, $u_2 = (1, 2, 3)$, $u_3 = (2, 1, 1)$. b. Show that the vector $v = (2, 5, 3) \in \mathbb{R}^3$ cannot be expressed as a linear combination of the vectors $v_1 = (1, 3, 2)$, $v_2 = (2, 4, 1)$, $v_3 = (1, 5, 7)$. c.

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thought. The format of the questions makes them suitable for teachers to use in quizzes and assigned homework. Some of the problems may provide excellent topics for presentation and discussions.

Furthermore, answers are given for all odd-numbered exercises which will be extremely useful for self-directed learners. In each chapter, there is a short background section which includes important definitions and statements of theorems to provide context for the following exercises and problems.

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assimilate. These concepts are fundamental to the study of linear algebra, so students' understanding of them is vital to mastering the subject. This text makes these concepts more accessible by introducing them early in a familiar, concrete " \mathbb{R}^n " setting, developing them gradually, and returning to them throughout the text so that when they are discussed in the abstract, students are readily able to understand.

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diagonalization as a central tool in solving complicated problems in these subjects by reducing coupled linear evolution problems to a sequence of simpler decoupled problems. This is the Decoupling Principle. Traditionally, difference equations, Markov chains, coupled oscillators, Fourier series, the wave equation, the Schrodinger equation, and Fourier transforms are treated separately, often in different courses. Here, they are treated as particular instances of the decoupling principle, and their solutions are remarkably similar. By understanding this general principle and the many applications given in the book, students will be able to recognize it and to apply it in many other settings. Sadun includes some topics relating to infinite-dimensional spaces. He does not present a general theory, but

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enough so as to apply the decoupling principle to the wave equation, leading to Fourier series and the Fourier transform. The second edition contains a series of Explorations. Most are numerical labs in which the reader is asked to use standard computer software to look deeper into the subject. Some explorations are theoretical, for instance, relating linear algebra to quantum mechanics. There is also an appendix reviewing basic matrix operations and another with solutions to a third of the exercises.

Elementary Linear Algebra develops and explains in careful detail the computational techniques and fundamental theoretical results central to a first course in linear algebra. This highly acclaimed text focuses on developing the abstract thinking

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essential for further mathematical study The authors give early, intensive attention to the skills necessary to make students comfortable with mathematical proofs. The text builds a gradual and smooth transition from computational results to general theory of abstract vector spaces. It also provides flexible coverage of practical applications, exploring a comprehensive range of topics.

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questions Provides an early introduction to eigenvalues/eigenvectors A Student solutions manual, containing fully worked out solutions and instructors manual available

The material presented in this book corresponds to a semester-long course, "Linear Algebra and Differential Equations", taught to sophomore students at UC Berkeley. In contrast with typical undergraduate texts, the book offers a unifying point of view on the subject, namely that linear algebra solves several clearly-posed classification problems about such geometric objects as quadratic forms and linear transformations. This attractive viewpoint on the classical theory agrees well with modern tendencies in advanced mathematics

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and is shared by many research mathematicians. However, the idea of classification seldom finds its way to basic programs in mathematics, and is usually unfamiliar to undergraduates. To meet the challenge, the book first guides the reader through the entire agenda of linear algebra in the elementary environment of two-dimensional geometry, and prior to spelling out the general idea and employing it in higher dimensions, shows how it works in applications such as linear ODE systems or stability of equilibria. Appropriate as a text for regular junior and honors sophomore level college classes, the book is accessible to high school students familiar with basic calculus, and can also be useful to engineering graduate students.

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Linear algebra is one of the central disciplines in mathematics. A student of pure mathematics must know linear algebra if he is to continue with modern algebra or functional analysis. Much of the mathematics now taught to engineers and physicists requires it. This well-known and highly regarded text makes the subject accessible to undergraduates with little mathematical experience. Written mainly for students in physics, engineering, economics, and other fields outside mathematics, the book gives the theory of matrices and applications to systems of linear equations, as well as many related topics such as determinants, eigenvalues, and differential equations. Table of Contents: 1. The Algebra of Matrices 2. Linear Equations 3. Vector Spaces 4.

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Determinants 5. Linear Transformations 6. Eigenvalues and Eigenvectors 7. Inner Product Spaces 8. Applications to Differential Equations For the second edition, the authors added several exercises in each chapter and a brand new section in Chapter 7. The exercises, which are both true-false and multiple-choice, will enable the student to test his grasp of the definitions and theorems in the chapter. The new section in Chapter 7 illustrates the geometric content of Sylvester's Theorem by means of conic sections and quadric surfaces. 6 line drawings. Index. Two prefaces. Answer section.

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