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Algebra Exam 2

Solutions

Linear Algebra Exam 2 Solutions

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lot more?

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Test 2 Review

[Linear Algebra]

Linear Systems

Exam Solutions

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Final Review (Part

1) ||

Transformations,

Matrix Inverse,

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~~Cramer's Rule, Algebra Exam 2~~

~~Determinants This~~

~~Hard Linear~~

~~Algebra Exam~~

~~Crushed OVER 90%~~

~~of All FIRST~~

~~YEARS?! Linear~~

~~Algebra Final~~

~~Review (Part 2) ||~~

~~Change of Basis,~~

~~Dimension \u0026~~

~~Rank, Null \u0026~~

~~Column Space~~

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~~Finding the~~ Exam 2

~~Complete Solution~~

Midterm 1 True

False

Easy/Medium/Hard

[Passing Linear

Algebra] Linear

~~Algebra: Quiz 2 and~~

~~its solution,~~

~~preparing for Test~~

~~2, 3 20 19~~

Linear Algebra

Example Problems

- General Solution

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of Augmented
Matrix

24b. Quiz 2 Review

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1.2.2 Solution Sets
and Free Variables

111 Linear Algebra

True False

Questions *Why
Linear Algebra?*

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Review

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Algebra Example

Problems -

Subspace Example

#1

Solving $Ax=b$ | MIT

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What's the big idea

of Linear Algebra?

Course Intro

Eigenvectors and

eigenvalues |

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Essence of linear algebra, chapter 14

Linear Algebra

Section 1.5 Solving

a Homogeneous

System Linear

Algebra Book for

Beginners:

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Algebra by Howard

Anton Augmented

Matrices with 0, 1

or Infinite Solutions

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Problem Solving | 2

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for machine

learning linear

algebra all week

quiz answer and

assignment

solution ~~Live~~

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~~Practice Test 2~~

~~Linear Algebra~~

~~Rank, System of
linear~~

~~equations, Eigen
values and Eigen~~

~~Vectors~~ **All the**

Math Classes

that Math Majors

Take [Discrete

Mathematics]

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Algebra for GATE 2

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Mathematics One

Solution, No

Solution, or

Infinitely Many

Solutions -

Consistent \u0026

Inconsistent

Systems Linear

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Exam 2, Solutions

1. Let A be the

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matrix $\begin{pmatrix} 2 & 4 & 0 & -3 & -4 \\ -2 & 6 & 13 & -1 & 0 & 2 & -2 \end{pmatrix}$

(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 : $\begin{pmatrix} 2 & 4 & 0 & -3 & -4 \\ -2 & 6 & 13 & -1 & 0 & 2 & -2 \end{pmatrix}$

$\Rightarrow \begin{pmatrix} 1 & 2 & 0 & -3 & -4 \\ 0 & 2 & 13 & 1 & -2 & 2 & -2 \end{pmatrix}$

$\Rightarrow \begin{pmatrix} 1 & 2 & 0 & -3 & -4 \\ 0 & 1 & 13 & 1 & -2 & 2 & -2 \end{pmatrix}$

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$$\begin{array}{ccccccc} 0 & -3 & -4 & -2 & 6 & 13 & 2 \\ -1 & 0 & 2 & -2 & \Rightarrow & 1 & 2 \\ 0 & 0 & 2 & -2 & 0 & 1 & -1 & 0 \\ 2 & -2 & & & & & & \end{array}$$

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MATH 2120 -

Midterm Exam #2

(SOLUTIONS) 20

March 2014 /8

Problem 5: Let $T(x)$

be the linear

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transformation on \mathbb{R}^2 that performs clockwise rotation by 30° followed by reflection across the y -axis. (a) Find the matrix A such that $T(x) = Ax$.

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Linear Algebra I

Instructor: Richard

Taylor MIDTERM

EXAM #2

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11:30-12:45

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beginning. 2. Make

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sure you have all 5
pages. 3.

Organization and
neatness count. 4.

Justify your
answers. 5. Clearly
show your work.

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Let P denote the

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

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$B = \{f_1 + t^2; 2t + 3t^2; 1 + 2t + 4t^2\}$ is a basis for P_2 .

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Yanovsky, 2005 2

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intended to assist graduate students with qualifying examination preparation. Please be aware, however, that the handbook might contain,

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Problems and Solutions

2. Let A denote the matrix $A = \begin{pmatrix} \sqrt{3} & 2 \\ -1 & 2 \end{pmatrix}$.

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 fo

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counterclockwise
rotation by θ is $\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}$.

Since $\cos(5\pi/6) = -\sqrt{3}/2$ and $\sin(5\pi/6) = 1/2$, we see that T is rotation by $5\pi/6 = 150^\circ$.

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universities. Here is the list of the universities where I borrowed problems and post solutions.

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Exam Problems |
Problems in
Mathematics
2 Solution: Using
the "standard"
basis $1, x, x^2$, the
vectors of B are the

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columns of the

matrix $A = \begin{pmatrix} 1 & 0 & 0 & 2 \\ 1 & 1 & 0 & -1 \end{pmatrix}$ It thus

suffices to check

that the three

columns of A are

lin. inde-pdendent.

This is equivalent

to the matrix

having 3 pivots,

non-zero

determinant, etc.

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or gossiping. It will

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not create you
have bad habit, but
it will guide you to
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The only solution to
2. this linear
system is $x =$
 $(A1)2b = A1(A1b)$

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

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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paradigms. NOW is

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Mathematical ...

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 lin-

ear combination of th

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e vectors $v_1 = (1, -3, 2)$, $v_2 = (2, -4, -1)$, $v_3 = (1, -5, 7)$. c.

Linear Algebra -

Final Exam

Questions

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Practice Exam

Instructions: For

questions which

require a written

answer, show all

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your work. Full credit will be given only if the necessary work is shown justifying your answer. Simplify your answers. Scientific calculators are allowed.

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