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**Spring 2018** *Linear*  
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2018 Linear Algebra  
Final Review (Part 1)*

*// Transformations,  
Matrix Inverse,  
Cramer's Rule,  
Determinants 111*

Linear Algebra True  
False Questions

~~Midterm 1 True False~~

~~Easy/Medium/Hard~~

~~[Passing Linear  
Algebra]~~ Linear

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Algebra Test from  
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Exam #1 Problem

Solving | MIT

18.06SC Linear

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~~Linear Algebra Final~~

~~Review (Part 2) ||~~

~~Change of Basis,~~

~~Dimension \u0026amp;~~

~~Rank, Null \u0026amp;~~

~~Column Space The~~

~~Big Picture of Linear~~

~~Algebra **Linear**~~



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Algebra Example  
Problems -  
Subspace Example  
#1

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What's the big idea of  
Linear Algebra?

~~\*\*Course Intro\*\*?~~

~~Intermediate Algebra~~

~~Final Exam Review:~~

~~Part 1 [fbt] (MATH~~

~~0314 - Developmental~~

~~Math III) Zoom~~

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**Solution (Sec-B) ||**

**Linear Algebra - Part**

**1 || By- Sunil Bansal**

~~Linear Algebra—~~

~~Lecture 5— Solutions~~

~~to Linear Systems~~

~~Algebra 2~~

~~Introduction, Basic~~

~~Review, Factoring,~~

~~Slope, Absolute~~

~~Value, Linear,~~

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~~Quadratic Equations~~

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Linear Algebra 1

Instructor: Richard  
Taylor MIDTERM  
EXAM #1

SOLUTIONS 11 Feb  
2016 11:30{12:45

Instructions: 1. Read  
the whole exam  
before beginning.

2. Make sure you have

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- all 6 pages. Exam Solutions
3. Organization and neatness count.
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  5. Clearly show your work.
  6. You may use the backs of pages for calculations.
  7. You may use an approved calculator.

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## Algebra 1 MIDTERM EXAM #1 SOLUTIONS

Solution. To show that the coordinate mapping is an isomorphism, we have to show that it is linear, one-to-one, and onto. For vectors  $x$  and  $y$  in  $V$ , let  $x = c_1b_1 + \dots + c_nb_n$  and  $y = d_1b_1 + \dots + d_nb_n$ .

Then,  $[x]_B = (c_1; \dots; c_n)$

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and  $[y]_B = (d_1; \dots; d_n)$ .

Moreover,  $x+y = (c_1 + d_1)b_1 + \dots + (c_n + d_n)b_n$ , and  $[x+y]_B = (c_1 + d_1; \dots; c_n + d_n) = (c_1; \dots; c_n) + (d_1; \dots; d_n) = [x]_B + [y]_B$ :

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MA 242 LINEAR  
ALGEBRA C1,  
Solutions to Second  
Midterm Exam  
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## Practice Midterm 1

Spring 2019 1. Let  $A = \begin{pmatrix} 2 & 3 & 3 & 1 & 4 & 1 \\ 1 & 3 & 5 & 0 & 1 & 1 \end{pmatrix}$  and

consider the

homogeneous system

$Ax = 0$ , where  $x \in \mathbb{R}^6$   
and  $0 \in \mathbb{R}^2$ .

(a) Compute  $\text{rref } A|0$ .

Solution:  $\text{rref } A|0 = \begin{pmatrix} 1 & 0 & 0 & 1 & 1 & 1 & 0 \\ 0 & 3 & 1 & 0 & 0 & 1 & 1 & 0 \end{pmatrix}$

(b) Identify the pivot columns  $b_j$  in  $B = \text{rref } A|0$ . Solution: Let  $B = \text{rref } A|0$ . Then the



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pivot columns of B are

$b_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$  and  $b_2 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$

$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$

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Practice Midterm 1 -

Department of

Mathematics

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Midterm Exam

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*Page 17/42*

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0+00:01 Subject:  
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MATH15a: Exam

Linear Algebra Exam

1, Solutions 1. Let  $T :$

$\mathbb{R}^3 \rightarrow \mathbb{R}^4$  be the linear transformation with

$$T(\tilde{e}_1) = 2\tilde{e}_1 + \tilde{e}_2 + 3\tilde{e}_3 + 4\tilde{e}_4,$$

$$T(\tilde{e}_2) = \tilde{e}_1 + \tilde{e}_2 + 2\tilde{e}_3 + 6\tilde{e}_4, \text{ and}$$

$$T(\tilde{e}_3) = 4\tilde{e}_1 + \tilde{e}_2 + 7\tilde{e}_3 + 8\tilde{e}_4. \text{ (a) (6}$$

points) Write the standard matrix for  $T$ .

Denote this matrix  $A$ .

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Answer: Since it's a transformation  $R^3 \rightarrow R^4$ , the matrix needs to be  $4 \times 3$ . It

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MATH15a:  
Linear Algebra Exam  
1, Solutions  
Linear Algebra I  
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EXAM #2  
SOLUTIONS 20

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March 2014 Exam

11:30–12:45

Solutions

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may use an approved  
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MATH 2120 Linear  
Algebra I MIDTERM  
EXAM #2  
SOLUTIONS  
Linear Algebra  
Midterm 1 PRINT  
NAME: SIGNATURE:  
INSTRUCTIONS: For  
problem 1 - 10 circle  
only one answer.

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## Linear Algebra

Your answer should be legible and clear, if not, no points will be awarded. Problem 11 and 12 require you to show detailed work leading to the answer. Points will be deducted for incomplete justification of the answers.

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I sometimes solve and post a solution/proof of an exam (midterm, final, qualifying, entrance, etc.) problem given at various universities. Here is the list of the universities where I borrowed problems and post solutions.



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Previous Linear  
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(b) (5 points) Find all solutions to the system of linear equations  $4x + 5z = 2$ ,  $3x + 3y + 5z = 3$ ,  $x + 2y + 2z = 1$ . Answer: This system is  $A\vec{x} = \vec{b}$ , where  $A$  is as in

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the previous part and

$$\tilde{b} = \begin{bmatrix} 2 \\ 3 \\ 1 \end{bmatrix}. \text{ Hence}$$
$$x \ y \ z = A^{-1} \tilde{b} = \begin{bmatrix} 4 & 10 \\ 15 & 1 \\ 3 & 5 \\ 3 & 8 \\ 12 \\ 2 & 3 \\ 1 \end{bmatrix} \begin{bmatrix} 2 \\ 3 \\ 1 \end{bmatrix} = \begin{bmatrix} 53 \\ 16 \\ 42 \end{bmatrix}.$$

4.

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MATH15a:

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Practice Final Exam,

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fferential Equations,  
Fall 2014 Name (Last,  
First): Problem 4) (10  
points) Let  $P_2$  be the



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Solutions  
vector space of  
polynomials of degree  
less than or equal to

2. Let  $B$  be the basis

$b_1 = x^2; b_2 = 1 + x; b_3 = x + x^2$ . Find the

coordinates of the

vector  $v = 1 + 2x + x^2$

with respect to  $B$ .

---

Name (Last, First):

Student ID: Circle

your section

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The solutions will be given after completing all problems. (The Ohio State University, Linear Algebra Exam)

The Possibilities For the Number of Solutions of Systems of Linear Equations that Have More Equations than Unknowns Determine all possibilities for the number of solutions of

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each of the system of linear equations described below. (a)

A system of 5 equations in 3 unknowns and it has  $x_1=0, x_2=-3, x_3=1$  as a solution.

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Linear Algebra

Midterm 1 at the Ohio State University (1/3

...

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(6 pts) The possible numbers of solutions are 0 or 1. The linear system has augmented matrix  $[A : c]$ . If you do the row operations which take  $A$  to RREF, the number of solutions will depend on what happens to  $c$ . If the result has a 0 in the 4th entry, there will be 1 solution.

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Solution: The characteristic polynomial is  $(\lambda - 4)^2(\lambda - 2)^2$ , so the eigenvalues are 4, 2, each with multiplicity 2. The matrix will therefore be diagonalizable if each

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eigenspace has  
dimension 2.  $A \in \mathbb{R}^{2 \times 2}$ ,  $A \in \mathbb{R}^{4 \times 4}$  each have rank 2,  
so the nullspaces  
have the required  
dimension.

---

Name

Forward elimination  
changes  $Ax = b$  to a  
row reduced  $Rx = d$ :  
the complete solution  
is  $\begin{bmatrix} ? \\ ? \\ ? \\ 4 \\ 2 \\ 5 \\ ? \end{bmatrix}$

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Solutions

$$\begin{pmatrix} 0 & ? & +c_1 & 1 & ? & +c_2 & 0 \\ ? & ? & ? & ? & 0 & 0 & 1 \end{pmatrix} x =$$

(a)(14 points) What is the 3 by 3 reduced row echelon matrix  $R$  and what is  $d$ ?

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Quiz 1 March 1, 2010  
Professor Strang -  
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