

Linear Algebra Midterm Exam Solutions

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Linear Algebra Midterm Exam Solutions
Linear Algebra I 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 all 6 pages. 3.Organization and neatness count. 4.Justify your answers. 5.Clearly show your work. 6.You may use the backs of pages for calculations. 7.You may use an approved calculator.

MATH 2120 Linear Algebra I 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, $[x]_B = (c_1, \dots, c_n)$ 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 $[x + y]_B = (c_1 + d_1, \dots, c_n + d_n) = (c_1, \dots, c_n) + (d_1, \dots, d_n) = [x]_B + [y]_B$.

MA 242 LINEAR ALGEBRA C1. Solutions to Second Midterm Exam
Linear Algebra Practice Midterm 1 Spring 2019 1. Let $A = \begin{bmatrix} 2 & 3 & 3 & 1 & 4 & 1 & 13 & 5 \end{bmatrix}$ and consider the homogeneous system $Ax = 0$, where $x \in \mathbb{R}^4$ and $0 \in \mathbb{R}^2$. (a) Compute $\text{rref } A_j0$. Solution: $\text{rref } A_j0 = \begin{bmatrix} 1 & 0 & 3 & 1 & 0 & 1 & 1 & 1 & 0 \end{bmatrix}$ (b) Identify the pivot columns b_j in $B = \text{rref } A_j0$. Solution: Let $B = \text{rref } A_j0$. Then the pivot columns of B are $b_1 = 1$ and $b_2 = 0$ 1 1

Linear Algebra Practice Midterm 1 - Department of Mathematics
Linear Algebra Midterm Exam Solutions Author: embraceafricagroup.co.za-2020-11-16T00:00:00+00:01 Subject: Linear Algebra Midterm Exam Solutions Keywords: linear, algebra, midterm, exam, solutions Created Date: 11/16/2020 3:28:36 PM

Linear Algebra Midterm Exam Solutions
MATH15a: Linear Algebra Exam 1, Solutions 1. Let $T : \mathbb{R}^3 \rightarrow \mathbb{R}^4$ be the linear transformation with $T(-e_1) = 2-e_1 + -e_2 + 3-e_3$, $T(-e_2) = -e_1 -e_2 + 2-e_3 + 6-e_4$, and $T(-e_3) = 4-e_1 -e_2 + 7-e_3 + 8-e_4$. (a) (6 points) Write the standard matrix for T . Denote this matrix A . Answer: Since it's a transformation $\mathbb{R}^3 \rightarrow \mathbb{R}^4$, the matrix needs to be 4×3 . It

MATH15a: Linear Algebra Exam 1, Solutions
Linear Algebra I Instructor: Richard Taylor MIDTERM EXAM #2 SOLUTIONS 20 March 2014 11:30|12:45 Instructions: 1. Read the whole exam before beginning. 2. Make sure you have all 5 pages. 3. Organization and neatness count. 4. Justify your answers. 5. Clearly show your work. 6. You may use the backs of pages for calculations. 7. You may use an approved calculator.

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. 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.

Linear Algebra Midterm I
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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(b) (5 points) Find all solutions to the system of linear equations $4x + 5z = 12$, $3x + 3y + 5z = 3$, $x + 2y + 2z = 1$. Answer: This system is $Ax = b$, where A is as in the previous part and $b = \begin{bmatrix} 12 \\ 3 \\ 1 \end{bmatrix}$. Hence $x = y = z = A^{-1}b = \begin{bmatrix} 4 \\ 10 \\ 15 \end{bmatrix} = \begin{bmatrix} 4 \\ 10 \\ 15 \end{bmatrix} = \begin{bmatrix} 4 \\ 10 \\ 15 \end{bmatrix} = \begin{bmatrix} 4 \\ 10 \\ 15 \end{bmatrix} = \begin{bmatrix} 4 \\ 10 \\ 15 \end{bmatrix}$.

MATH15a: Linear Algebra Practice Final Exam, Solutions
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Midterm 1 Solutions, MATH 54, Linear Algebra and Differential Equations, Fall 2014 Name (Last, First): Problem 4) (10 points) Let P_2 be the 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
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 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.

Linear Algebra Midterm 1 at the Ohio State University (1/3 ...
(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.

Linear Algebra - Exam 1 Solutions - OU Math
Solution: The characteristic polynomial is $(4 - \lambda)^2(2 - \lambda)$, so the eigenvalues are 4, 2, each with multiplicity 2. The matrix will therefore be diagonalizable if each eigenspace has dimension 2. $A - 4I, A - 2I$ 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 $x = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 4 \\ 2 \\ 5 \end{bmatrix} + c_1 \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} + c_2 \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} + c_3 \begin{bmatrix} 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$ (14 points) What is the 3 by 3 reduced row echelon matrix R and what is d ?

Quiz 1 March 1, 2010 Professor Strang - MIT OpenCourseWare
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