

Linear Algebra Exam 2 Solutions

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Linear Algebra Exam 2 Solutions MATH15a:

Linear Algebra Exam 2, Solutions 1. Let A be the 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 ? MATH15a: Linear Algebra Exam 2, Solutions Math 313 (Linear Algebra) Exam 2 - Practice Exam Instructions: For questions which require a written answer, show all your work. Full credit will be given only if the necessary work is shown justifying your answer. Simplify your answers. Scientific calculators are allowed. Math 313 (Linear Algebra) Exam 2 - Practice Exam Exam 2 Exam 2 Solutions

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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 $A\tilde{x} = \tilde{b}$, where A is

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as in the previous part and $\sim b = \begin{bmatrix} -2 \\ 3 \\ -1 \end{bmatrix}$. Hence $x \ y \ z = A^{-1}\sim b = \begin{bmatrix} -4 & 10 & -15 \\ 1 & -3 & 5 \\ -3 & 8 & -12 \end{bmatrix} \begin{bmatrix} -2 \\ 3 \\ -1 \end{bmatrix} = \begin{bmatrix} 53 \\ -16 \\ 42 \end{bmatrix}$.

4. (a) (4 points) Using Gaussian ... MATH15a: Linear Algebra Practice Final Exam, Solutions Linear Algebra Exam Problems 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. Linear Algebra Exam Problems | Problems in Mathematics Don't show me this again. Welcome! This is one of over 2,200 courses on OCW. Find materials for this course in the pages linked along the left. MIT OpenCourseWare is a free & open publication of material from thousands of MIT

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have a TeX file or pdf of all the solutions compiled?
Thanks again. Wu Jinyang 25 Aug 2017 Reply. The proof of 7.36 ... Home - Solutions to Linear Algebra Done Right (b) Use your answer to part (a) to find the solutions to $A^2x = b$ where $b = \begin{pmatrix} 2 \\ 4 \\ 0 \\ 1 \\ 1 \\ 3 \\ 5 \end{pmatrix}$. (12 pts) Since A is invertible, we can solve $A^2x = b$ for x by multiplying both sides of the equation by $(A^2)^{-1} = (A^{-1})^2$ on the left. The only solution to 2 Linear Algebra - Exam 1 Solutions - OU Math Home » Courses » Mathematics » Linear Algebra » Unit II: Least Squares, Determinants and Eigenvalues » Exam 2 Exam 2 Course Home Exam 2 | Unit II: Least Squares, Determinants and ... 2 Solution: Using the "standard" basis $1, x, x^2$, the vectors of B are the columns of the

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matrix $A = \begin{bmatrix} 1 & 0 & 0 & 2 & 1 & 1 & 0 \\ -1 & 1 & \dots & \dots & \dots & \dots & \dots \end{bmatrix}$ 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. Pick your favorite condition, and check it.

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(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 .

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