

# Linear Algebra Exam 2 Solutions

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MTH 5102 Linear Algebra Practice Exam 2 Solutions Mar. 29, 2016 Name (Last name, First name): Exam Instructions: You have 1 hour & 10 minutes to complete the exam. There are a total of 6 problems. You must show your work and write in complete sentences. Partial credit may be given even for incomplete problems as long as you show your work. 1 ...

Exam 2 | Unit II: Least Squares, Determinants and ...

Linear Algebra - Exam 1 Solutions 1. Is the vector  $\begin{bmatrix} 2 \\ 4 \\ 1 \\ 2 \\ 1 \\ 3 \\ 5 \end{bmatrix}$  a linear combination of the vectors  $\begin{bmatrix} 2 \\ 4 \\ 1 \\ 1 \\ 1 \\ 3 \\ 5 \end{bmatrix}$ ;  $\begin{bmatrix} 2 \\ 4 \\ 2 \\ 2 \\ 1 \\ 3 \\ 5 \end{bmatrix}$ ;  $\begin{bmatrix} 2 \\ 4 \\ 1 \\ 1 \\ 2 \\ 3 \\ 5 \end{bmatrix}$ ? Why or why not? (8 pts) No. We need to check if there are constants  $x, y, z$  such that

MATH 2120 Linear Algebra I MIDTERM EXAM #2 SOLUTIONS

Linear Algebra Igor Yanovsky, 2005 7 1.6 Linear Maps and Subspaces  $L: V \rightarrow W$  is a linear map over  $F$ . The kernel or nullspace of  $L$  is  $\ker(L) = N(L) = \{x \in V : L(x) = 0\}$  The image or range of  $L$  is  $\text{im}(L) = R(L) = L(V) = \{L(x) \in W : x \in V\}$  Lemma.  $\ker(L)$  is a subspace of  $V$  and  $\text{im}(L)$  is a subspace of  $W$ . Proof. Assume that  $f_1, \dots, f_n \in \ker(L)$  and that  $x = f_1 x_1 + \dots + f_n x_n \in \ker(L)$ , then  $L(x) = f_1 L(x_1) + \dots + f_n L(x_n) = f_1 \cdot 0 + \dots + f_n \cdot 0 = 0$  ...

**MAT2611 – Linear Algebra | gimmenotes**

Linear Algebra 1 Exam 2 Solutions 7/14/3 Question 1 The line  $L$  has the symmetric equation:  $\frac{x-2}{1} = \frac{y+3}{2} = \frac{z-4}{2}$ . The line  $M$  has the parametric equation:  $[x, y, z] = [4, 10, 5] + s[10, 7, 2]$ . The line  $N$  is perpendicular to both the lines  $L$  and  $M$  and passes through the point  $[2, 1, 3]$ . • Find the parametric and symmetric ...

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Linear Algebra 1 Exam 2 Solutions 7/14/3

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Linear Algebra - Final Exam Questions There are 8 questions in this paper. You are required to answer six questions for full marks. ... clearly stating the general solution for each . b. Outline a method for obtaining the inverse of a  $n \times n$  matrix using row operations. Use this to find the inverse of  $\begin{bmatrix} 1 & 2 & 2 & 3 \\ & 3 & & \end{bmatrix}$ .

Linear Algebra - Exam 1 Solutions - OU Math

Business Hours: Monday through Friday 7:30 am to 3:30 pm.

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MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam

MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam Prof. Nikola Popovic, November 9, 2006, 09:30am - 10:50am Problem 1 (15 points). Let the matrix  $A$  be given by