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[Infinitely Many Solutions - Consistent \u0026 Inconsistent Systems Linear Algebra Exam 2 Solutions Exam 2, Solutions 1. Let \$A\$ be the matrix \$\begin{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \end{bmatrix}\$ \(a\) \(4 points\) 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{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 0 \\ 3 & 4 & 2 \\ 0 & 1 & 1 \end{bmatrix}\$](#)

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(a) Find the matrix A such that $T(x) = Ax$.

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Let P denote the 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 $B = \{f_1 + t^2, 2t + 3t^2, 1 + 2t + 4t^2\}$ is a basis for P_2 .

MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam

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Linear Algebra: Graduate Level Problems and Solutions Igor Yanovsky 1. Linear Algebra Igor Yanovsky, 2005 2 Disclaimer: This handbook is intended to assist graduate students with qualifying examination preparation. Please be aware, however, that the handbook might contain,

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2. Let A denote the matrix $A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 2 \\ 3 & 2 & 1 \end{pmatrix}$. Let $T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be the linear transformation given by $T(\tilde{x}) = A\tilde{x}$. (a) (5 points) Describe T geometrically. Answer: For any angle θ , the matrix for 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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Linear Algebra Exam Problems | Problems in Mathematics

2 Solution: Using the "standard" basis $1, x, x^2$, the vectors of B are the columns of the matrix $A = \begin{pmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 0 & 1 \end{pmatrix}$. It thus suffices to check that the three columns of A are linearly independent. This is equivalent to the matrix having 3 pivots, non-zero determinant, etc. Pick your favorite condition, and check it. 4

Name

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The only solution to 2. this linear system is $x = (A^{-1})b = A^{-1}(A^{-1}b) = \begin{pmatrix} 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 0 \end{pmatrix}$ @ $\begin{pmatrix} 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 2 & 4 & 0 & 1 & 1 & 3 & 5 & 1 \end{pmatrix}$ $A = \begin{pmatrix} 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 2 & 4 & 0 & 1 & 0 & 3 & 5 \end{pmatrix} = \begin{pmatrix} 2 & 4 & 3 & 1 & 1 & 3 & 5 \end{pmatrix}$. 5. 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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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 linear combination of the 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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