

## Linear Algebra Exam 2 Solutions

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Exam 2,Solutions 1. Let A be the matrix  $\begin{pmatrix} 2 & 4 & 0 & 3 \\ 7 & 4 & 2 & 6 \\ 13 & 7 & 1 & 0 \\ 2 & 2 & 1 & 2 \end{pmatrix}$  (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? Answer: m = 4, n = 3. (b) (8 points) Find a basis for imA. Answer: Row-reduce A:  $\begin{pmatrix} 2 & 4 & 0 & 3 \\ 7 & 4 & 2 & 6 \\ 13 & 7 & 1 & 0 \\ 2 & 2 & 1 & 2 \end{pmatrix} = \begin{pmatrix} 2 & 0 & 3 & 4 \\ 7 & 4 & 2 & 6 \\ 13 & 7 & 1 & 0 \\ 2 & 0 & 2 & 2 \end{pmatrix} \begin{pmatrix} 1 & 0 & 2 & 2 \\ 0 & 1 & 1 & 0 \\ 0 & 2 & 2 & 2 \end{pmatrix}$

MATH15a: LinearAlgebra Exam 2,Solutions

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MATH 2120 Linear Algebra I MIDTERM EXAM #2 SOLUTIONS

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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,

Linear Algebra: Graduate Level Problems and Solutions

2. Let A denote the matrix  $A = \begin{pmatrix} 2 & 3 & 2 \\ 7 & 1 & 2 \\ 13 & 7 & 1 \end{pmatrix}$ . Let  $T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$  be the linear transformation given by  $T(\vec{x}) = A\vec{x}$ . (a) (5 points) Describe T geometrically. Answer: For any angle  $\theta$ , the matrix for counterclockwise rotation by  $\theta$  is  $\begin{pmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{pmatrix}$ . Since  $\cos(5^\circ) = \frac{1}{2}$  and  $\sin(5^\circ) = \frac{\sqrt{3}}{2}$ , we see that T is rotation by  $5^\circ = 150^\circ$ .

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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  $A = \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 1 \\ 0 & 1 & 1 \end{pmatrix}$ . It thus suffices to check that the three columns of  $A$  are lin. independent. This is equivalent to the matrix having 3 pivots, non-zero determinant, etc. Pick your favorite condition, and check it.

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## Name

linear algebra midterm exam solutions in your conventional and simple gadget. This condition will suppose you too often entrance in the spare time more than chatting or gossiping. It will not create you have bad habit, but it will guide you to have enlarged craving to log on book.

## Linear Algebra Midterm Exam Solutions

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

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.

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