# Linear Algebra Exam 2 Solutions

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2. Let A denote the matrix A = " − √ 3 2 −1 1 2 − √ 3 2 #. Let T : R2 → R2 be the linear transformation given by T(~x) = A~x. (a) (5 points) Describe T geometrically. Answer: Forany angle θ , thematrixfo rcounterclockwise rotationby θ is cos θ − sin θ sin θ cos θ . Since cos(5π 6) = − √ 3 2 and sin(5π 6) = 1 2, we see that T is rotation by 5π 6 = 150 .

Linear Algebra - Final Exam Questions

| | | |
|---|---|---|
| Linear Algebra: Test 2 Review | ~~Final Review (Part 2) \|\| Change of Basis, Dimension \u0026 Rank, Null \u0026 Column Space~~ | Algebra Example Problems - General Solution of Augmented Matrix |
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MATH15a: LinearAlgebra PracticeFinal Exam, Solutions

The only solution to 2. this linear system is x = (A1)2b = A1(A1b) = 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= 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. 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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**Midterm 1 True False Easy/Medium/Hard [Passing Linear Algebra]** ~~Linear Algebra: Quiz 2 and its solution, preparing for Test 2, 3-20-19~~

Linear Algebra

Example Problems - General Solution of Augmented Matrix

24b. Quiz 2 Review

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MATH 2120 – Midterm Exam #2 (SOLUTIONS) 20 March 2014 /8 Problem 5: Let T(x) be the linear transformation on R2that performs clockwise rotation by 30 ◦ followed by re fl ection across the y-axis. (a) Find the matrix A such that T(x) = Ax.

**MATH 2120 Linear Algebra I MIDTERM EXAM #2 SOLUTIONS**

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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Exam 2,Solutions 1. Let A be the matrix 2 4 0 −3 −4 −2 6 13 −1 0 2 −2 (a) (4 points) If A is the matrix for a linear transformation T : Rn → Rm, what are m and n? Answer: m = 4, n = 3. (b) (8 points) Find a basis for imA. Answer: Row-reduce A: 2 4 0 −3 −4 −2 6 13 −1 0 2 −2 =⇒ 1 2 0 −3 −4 −2 6 13 −1 0 2 −2 =⇒ 1 2 0 0 2 −2 0 1 −1 0 2 −2

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

Let P denote the vector space of all polynomials, and let P2 be the set of all polynomials of degree at most 2; that is, P2 = fp(t) : p(t) = a0 +a1t+a2t2; a0;a1;a2 realg. (a) Show that P2 is a subspace of P. (b) Using coordinate vectors, show that the set B given by B = f1+t2;2 t+3t 2;1+2t 4t g is a basis for P2.

**Linear Algebra Exam Problems | Problems in Mathematics**

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paper and use Adobe Scan, CamScanner, or a similar app to take photos of each page and join them into a single PDF. Then, submit the PDF through the Canvas assignment.

*Linear Algebra Exam 2 Solutions*

2 Solution: Using the ” standard ” basis 1,x,x2, the vectors of B are the columns of the matrix A = 1 0 0 2 1 1 0 − 1 1 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. 4

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*Previous Linear Algebra Exams and Solutions | Mathematical ...*

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MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam

Write the vector u=(1, − 2,5) ∈ R3as a linear combination of the vectors

u1=(1,1,1), u2=(1,2,3), u3=(2, − 1,1) b. Show that the vector v =(2, − 5,3) ∈ R3cannot be expressed as a lin-earcombinationofthe vectorsv1=(1, − 3,2), v2=(2, − 4, − 1), v3=(1, − 5,7). c.