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Eigenvectors and eigenvalues | Essence of linear algebra, chapter 14 ~~Linear Algebra Section 1.5 Solving a Homogeneous System Linear Algebra Book for Beginners: Elementary Linear Algebra by Howard Anton Augmented Matrices with 0, 1 or Infinite Solutions 141-44 Exam #1 Problem Solving | MIT 18.06SC Linear Algebra, Fall 2011 CSIR NET Linear Algebra Test solution || By - Sunil Bansal (#2) 2020: Mathematics for machine learning linear algebra all week quiz answer~~

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Exam 2, Solutions 1. Let A be the matrix $\begin{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \\ 0 & 2 & 2 \end{bmatrix}$
(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 : $\begin{bmatrix} 2 & 4 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \\ 0 & 2 & 2 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 0 \\ 3 & 4 & 2 \\ 6 & 13 & 1 \\ 0 & 2 & 2 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 0 \\ 0 & 0 & 2 \\ 0 & 1 & 1 \\ 0 & 2 & 2 \end{bmatrix}$

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(SOLUTIONS) 20 March 2014 /8

Problem 5: Let $T(x)$ be the linear transformation on \mathbb{R}^2 that performs clockwise rotation by 30° followed by

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reflection across the y-axis. (a) Find the matrix A such that $T(x) = Ax$.

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beginning. 2. Make sure you have all 5
pages. 3. Organization and neatness
count. 4. Justify your answers. 5.
Clearly show your work. MATH ...

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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, $P_2 = \{p(t) : p(t) = a_0 + a_1t + a_2t^2\}$;

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$a_0, a_1, a_2 \in \mathbb{R}$. (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 .

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Problems and Solutions Igor Yanovsky
1. Linear Algebra Igor Yanovsky, 2005
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preparation. Please be aware, however, that the handbook might contain,

Linear Algebra: Graduate Level Problems and Solutions

2. Let A denote the matrix $A = \begin{pmatrix} 3 & 2 \\ 1 & 2 \end{pmatrix}$. 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 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 e_1, e_2, e_3 , the vectors of B are the columns of the matrix $A = \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$. 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. 4

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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.

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