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~~Exam 2, Solutions 1. Let A be the matrix $\begin{pmatrix} 2 & 4 & 0 & -3 & -4 & -2 & 6 & 13 & -1 & 0 & 2 & -2 \end{pmatrix}$ (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 $\text{im}A$. Answer: Row-reduce A : $\begin{pmatrix} 2 & 4 & 0 & -3 & -4 & -2 & 6 & 13 & -1 & 0 & 2 & -2 \\ \Rightarrow & 1 & 2 & 0 & -3 & -4 & -2 & 6 & 13 & -1 & 0 & 2 \\ & 2 & -2 & \Rightarrow & 1 & 2 & 0 & 0 & 2 & -2 & 0 & 1 & -1 & 0 & 2 & -2 \end{pmatrix}$~~

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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 .

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2. Let A denote the matrix $A = \begin{pmatrix} -\sqrt{3} & 2 \\ -1 & 1 \\ 2 & -\sqrt{3} \end{pmatrix}$. 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 $1, x, x^2$, 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. 4

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.

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The only solution to 2. this linear system is $x = (A^{-1})2b = A^{-1}(A1b) = \begin{pmatrix} 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 0 \\ 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 2 & 4 & 0 & 1 & 1 & 3 & 5 & 1 \end{pmatrix} A = \begin{pmatrix} 2 & 4 & 2 & 3 \\ 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 2 & 4 & 0 & 1 & 0 & 3 & 5 \\ 2 & 4 & 3 & 1 & 1 & 3 & 5 \end{pmatrix}$. 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.

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