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~~Rank, Null \u0026~~

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~~Finding the~~

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1.2.2 Solution Sets
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True False

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Problems -
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#1

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Eigenvectors and
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~~Matrices with 0, 1
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Sunil Bansal (#2)

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~~System of linear~~

~~equations, Eigen~~

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Solution, No
Solution, or
Infinitely Many
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Consistent \u0026
Inconsistent
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Exam 2, Solutions 1.

Let A be the matrix

$$\begin{pmatrix} 2 & 4 & 0 & -3 & -4 & -2 & 6 \\ 13 & -1 & 0 & 2 & -2 & 0 & 0 \end{pmatrix}$$

(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-

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Reduce A: $\begin{bmatrix} 2 & 4 & 0 & -3 \\ -4 & -2 & 6 & 13 & -1 & 0 \\ 2 & -2 & = & 1 & 2 & 0 & -3 \\ -4 & -2 & 6 & 13 & -1 & 0 \\ 2 & -2 & = & 1 & 2 & 0 & 0 & 2 \\ -2 & 0 & 1 & -1 & 0 & 2 & -2 \end{bmatrix}$

MATH15a:

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Exam 2, Solutions

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should be

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Completed

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Problem 5: Let
 $T(x)$ be the linear

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transformation on \mathbb{R}^2 that performs clockwise rotation by 30° followed by reflection across the y -axis. (a) Find the matrix A such that $T(x) = Ax$.

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Linear Algebra I

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Let P denote the

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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

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

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2. Let A denote the matrix $A = \begin{pmatrix} 2 & -1 \\ 1 & 2 \end{pmatrix}$

#. 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 fo

rcounterclockwise

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rotation by θ is
$$\begin{pmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{pmatrix}$$
. Since
 $\cos(5\pi/6) = -\frac{\sqrt{3}}{2}$ and $\sin(5\pi/6) = \frac{1}{2}$, we see that
 T is rotation by $5\pi/6 = 150^\circ$.

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2 Solution: Using
the "standard" basis
 $1, x, x^2$, the vectors
of B are the
columns of the

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matrix $A = \begin{pmatrix} 1 & 0 & 0 & 2 \\ 1 & 1 & 0 & -1 \\ 1 & -1 & 1 & 1 \end{pmatrix}$. It thus

suggests 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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The only solution to
2. this linear
system is $x =$

$$\begin{aligned} (A1)2b &= A1(A1b) \\ &= \begin{pmatrix} 2 & 4 & 2 & 3 & 3 & 2 & 1 & 0 & 1 \\ 1 & 1 & 3 & 5 & 0 & @ & 2 & 4 & 2 & 3 \\ 3 & 2 & 1 & 0 & 1 & 1 & 1 & 3 & 5 & 2 \end{pmatrix} \end{aligned}$$

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Exam 2 Solutions

$4 \ 0 \ 1 \ 1 \ 3 \ 5 \ 1 \ A = 2$
 $4 \ 2 \ 3 \ 3 \ 2 \ 1 \ 0 \ 1 \ 1 \ 1$
 $3 \ 5 \ 2 \ 4 \ 0 \ 1 \ 0 \ 3 \ 5 =$
 $2 \ 4 \ 3 \ 1 \ 1 \ 3 \ 5. \ 5.$

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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Mathematical ...

Write the vector

$$u = (1, -2, 5)$$

\mathbb{R}^3 as a linear

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combination of the
vectors $u_1 = (1, 1, 1)$,
 $u_2 = (1, 2, 3)$,
 $u_3 = (2, -1, 1)$ b.

Show that the
vector $v = (2, -5, 3)$

\mathbb{R}^3 cannot be
expressed as a lin-
ear combination of the
vectors $v_1 = (1, -3, 2$
 $)$, $v_2 = (2, -4, -1)$,
 $v_3 = (1, -5, 7)$. c.

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Final Exam

Questions

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your answer.

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