

# MA 242 LINEAR ALGEBRA C1, Solutions to Second Midterm Exam

Prof. Nikola Popovic, November 9, 2006, 09:30am - 10:50am

## Problem 1 (15 points).

Let the matrix  $A$  be given by

$$\begin{bmatrix} 1 & -2 & -1 \\ -1 & 5 & 6 \\ 5 & -4 & 5 \end{bmatrix}.$$

- (a) Find the inverse  $A^{-1}$  of  $A$ , if it exists.
- (b) Based on your answer in (a), determine whether the columns of  $A$  span  $\mathbb{R}^3$ . (Justify your answer!)

## Solution.

(a) To check whether  $A$  is invertible, we row reduce the augmented matrix  $[A \ I_3]$ :

$$\begin{bmatrix} 1 & -2 & -1 & 1 & 0 & 0 \\ -1 & 5 & 6 & 0 & 1 & 0 \\ 5 & -4 & 5 & 0 & 0 & 1 \end{bmatrix} \sim \dots \sim \begin{bmatrix} 1 & -2 & -1 & 1 & 0 & 0 \\ 0 & 3 & 5 & 1 & 1 & 0 \\ 0 & 0 & 0 & -7 & -2 & 1 \end{bmatrix}.$$

Since the last row in the echelon form of  $A$  contains only zeros,  $A$  is not row equivalent to  $I_3$ . Hence,  $A$  is not invertible, and  $A^{-1}$  does not exist.

(b) Since  $A$  is not invertible by (a), the Invertible Matrix Theorem says that the columns of  $A$  cannot span  $\mathbb{R}^3$ .

## Problem 2 (15 points).

Let the vectors  $\mathbf{b}_1, \dots, \mathbf{b}_4$  be defined by

$$\mathbf{b}_1 = \begin{pmatrix} 3 \\ 5 \\ -2 \\ -4 \end{pmatrix}, \quad \mathbf{b}_2 = \begin{pmatrix} 2 \\ -1 \\ -5 \\ 7 \end{pmatrix}, \quad \mathbf{b}_3 = \begin{pmatrix} -1 \\ 1 \\ 3 \\ 0 \end{pmatrix}, \quad \text{and} \quad \mathbf{b}_4 = \begin{pmatrix} 0 \\ 0 \\ 0 \\ -3 \end{pmatrix}.$$

- (a) Determine if the set  $\mathcal{B} = \{\mathbf{b}_1, \mathbf{b}_2, \mathbf{b}_3, \mathbf{b}_4\}$  is linearly independent by computing the determinant of the matrix  $B = [\mathbf{b}_1 \ \mathbf{b}_2 \ \mathbf{b}_3 \ \mathbf{b}_4]$ .
- (b) Using your answer in (a), determine if  $\mathcal{B}$  is a basis for  $\mathbb{R}^4$ . (Justify your answer!)

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