

Linear Algebra – Mechanical Engineering / Elec. Aut. Indust. Engineering - First
midterm exam - MODEL A – 18, 19, 28 & 29 15/10/2020

Name and Lastname:

Group:

Write your NIA, name, lastname and group number before you do anything else. Throughout the exam, the numbers $d_1, d_2, d_3, \dots, d_9$ refer to the 9 digits of your NIA.

Also, M and N will be the following matrices:

$$M = \begin{pmatrix} d_4 & d_5 & d_6 & d_7 & d_8 \\ d_6 & d_7 & d_1 & d_2 & d_3 \\ d_3 & d_8 & d_9 & d_5 & d_9 \end{pmatrix}; \quad N = \begin{pmatrix} d_4 & d_5 & d_6 \\ d_7 & d_8 & d_9 \\ d_7 & d_1 & d_2 \\ d_4 & d_2 & d_3 \\ d_9 & d_5 & d_9 \end{pmatrix}.$$

Problem 1. [(2 points)] Find the reduced echelon form and the pivot columns of M .

Problem 2. [(2 points)] Let $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be a linear transformation taking the vectors $e_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$ and $e_2 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$ to e_2 and $e_1 + d_3 e_2$. Find the matrix of T .

Problem 3. [(2 points)] Can every vector in $\mathbb{R}^5$ be written as a linear combination of the columns of the matrix N ?

Problem 4. [(2 points)] Decide and justify whether the following statements about 3×3 matrices A , B and C , are true or false.

- (a) If $B = [b_1 b_2 b_3]$ then $AB = [Ab_1 + Ab_2 + Ab_3]$.
- (b) The second row of AB is the second row of A multiplied on the right by B .
- (c) $(AB)C = (AC)B$.
- (d) $(AB)^T = A^T B^T$.
- (e) The transpose of a sum of matrices equals the sum of their transposes.

Problem 5. [(2 points)] Suppose A is a $3 \times n$ matrix whose columns span $\mathbb{R}^3$. Explain how to construct an $n \times 3$ matrix D such that $AD = I_3$ (I_3 is the identity matrix).

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David Kirk



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The Industrial Reorganization Act: The communications industry United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly, 1973

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