18.06 Final Exam in Linear Algebra

13 December 1993: Professor Strang

Part I (short questions)

1. Find all possible values for the determinant of the given type of 3×3 real matrix.

[2] (a) A matrix with independent columns.

[2] (b) A matrix with $A^2 = A$.

[2] (c) A matrix with pivots 1, 2 and 3.

[2] (d) A Markov matrix.

[3] 2.Why is there no orthogonal matrix Q such that $Q^{-1}AQ = A$ if

$$A = \begin{bmatrix} 1 & 4 & 5 \\ 0 & 2 & 6 \\ 0 & 0 & 3 \end{bmatrix}, \quad A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}?$$

[2] 3. The left null space $N(A^T)$ of a matrix A is spanned by $\begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$. The set of solutions of the equation $Ax = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$ is (circle one)

the empty set, a point, a line, a plane, a three-dimensional hyperplane in $\mathbb{R}^4$, all of $\mathbb{R}^4$.

[4] 4. Apply the Gram-Schmidt algorithm to the columns of the matrix $\begin{bmatrix} 2 & 1 & 1 \\ 2 & 1 & 0 \\ 1 & 1 & 2 \end{bmatrix}$ to obtain three orthonormal vectors.

[3] 5. For what values of a and b is the quadratic form $ax^2 + 2xy + by^2 = \begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} a & 1 \\ 1 & b \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix}$ positive definite?

Linear Algebra Solution Manual Final Exam

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