

$$(f) \begin{pmatrix} -2 & 7 \\ 5 & 0 \\ 1 & 1 \\ 4 & -6 \end{pmatrix}.$$

$$(g) \begin{pmatrix} 5 & 6 & 7 \end{pmatrix}.$$

$$(h) \begin{pmatrix} -4 & 0 & 6 \\ 0 & 1 & -3 \\ 6 & -3 & 5 \end{pmatrix} \text{ with } \text{tr} = 2.$$

- Let $M = aA + bB$ and $N = aA' + bB'$. Then we have $M_{ij} = aA_{ij} + bB_{ij} = N_{ji}$ and so $M^t = N$.
- We have $A'_{ij} = A_{ji}$ and so $A'_{ji} = A_{ij}$.
- By the previous exercises we have $(A + A')^t = A' + (A')^t = A' + A$ and so it's symmetric.
- We have that $\text{tr}(aA + bB) = \sum_{i=1}^n aA_{ii} + bB_{ii} = a \sum_{i=1}^n A_{ii} + b \sum_{i=1}^n B_{ii} = a\text{tr}(A) + b\text{tr}(B)$.
- If A is a diagonal matrix, we have $A_{ij} = 0 = A_{ji}$ when $i \neq j$.
- Just check whether it's closed under addition and scalar multiplication and whether it contains 0. And here s and t are in \mathbb{R} .
 - Yes. It's a line $t(3, 1, -1)$.
 - No. It contains no $(0, 0, 0)$.
 - Yes. It's a plane with normal vector $(2, -7, 1)$.
 - Yes. It's a plane with normal vector $(1, -4, -1)$.
 - No. It contains no $(0, 0, 0)$.
 - No. We have both $(\sqrt{3}, \sqrt{5}, 0)$ and $(0, \sqrt{6}, \sqrt{3})$ are elements of W_6 but their sum $(\sqrt{3}, \sqrt{5} + \sqrt{6}, \sqrt{3})$ is not an element of W_6 .
- We have $W_1 \cap W_3 = \{0\}$, $W_1 \cap W_4 = W_1$, and $W_3 \cap W_4$ is a line $t(11, 3, -1)$.
- We have W_1 is a subspace since it's a plane with normal vector $(1, 1, \dots, 1)$. But this should be checked carefully. And since $0 \notin W_2$, W_2 is not a subspace.
- No in general but Yes when $n = 1$. Since W is not closed under addition. For example, when $n = 2$, $(x^2 + x) + (-x^2) = x$ is not in W .
- Directly check that sum of two upper triangular matrix and product of one scalar and one upper triangular matrix are again upper triangular matrices. And of course zero matrix is upper triangular.
- It's closed under addition since $(f + g)(s_0) = 0 + 0 = 0$. It's closed under scalar multiplication since $cf(s_0) = c0 = 0$. And zero function is in the set.

Linear Algebra Friedberg Solutions Chapter 1

Patrick Vollmar



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Linear Algebra I Frederick P. Greenleaf,Sophie Marques,2019-01-30 This book is the first of two volumes on linear algebra for graduate students in mathematics the sciences and economics who have a prior undergraduate course in the subject a basic understanding of matrix algebra and some proficiency with mathematical proofs Proofs are emphasized and the overall objective is to understand the structure of linear operators as the key to solving problems in which they arise This first volume re examines basic notions of linear algebra vector spaces linear operators duality determinants diagonalization and inner product spaces giving an overview of linear algebra with sufficient mathematical precision for advanced use of the subject This book provides a nice and varied selection of exercises examples are well crafted and provide a clear understanding of the methods involved New notions are well motivated and interdisciplinary connections are often provided to give a more intuitive and complete vision of linear algebra Computational aspects are fully covered but the study of linear operators remains the focus of study in this book

Linear Algebra Stephen H. Friedberg,Arnold J. Insel,Lawrence E. Spence,1989

Introduction to Linear Algebra with Applications Stephen H. Friedberg,Arnold J. Insel,1986

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Analytic Geometry and Linear Algebra for Physical Sciences Kartikeya Dutta,2025-02-20

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