

$$(g) \ 10x^7 - 30x^4 + 40x^2 - 15x.$$

$$(h) \ 3x^5 - 6x^3 + 12x + 6.$$

$$5. \begin{pmatrix} 8 & 3 & 1 \\ 3 & 0 & 0 \\ 3 & 0 & 0 \end{pmatrix} + \begin{pmatrix} 9 & 1 & 4 \\ 3 & 0 & 0 \\ 1 & 1 & 0 \end{pmatrix} = \begin{pmatrix} 17 & 4 & 5 \\ 6 & 0 & 0 \\ 4 & 1 & 0 \end{pmatrix}.$$

6.  $M = \begin{pmatrix} 4 & 2 & 1 & 3 \\ 5 & 1 & 1 & 4 \\ 3 & 1 & 2 & 6 \end{pmatrix}$ . Since all the entries has been doubled, we have  $2M$  can describe the inventory in June. Next, the matrix  $2M - A$  can describe the list of sold items. And the number of total sold items is the sum of all entries of  $2M - A$ . It equals 24.

7. It's enough to check  $f(0) + g(0) = 2 = h(0)$  and  $f(1) + g(1) = 6 = h(1)$ .
8. By (VS 7) and (VS 8), we have  $(a + b)(x + y) = a(x + y) + b(x + y) = ax + ay + bx + by$ .
9. For two zero vectors  $0_0$  and  $0_1$ , by Thm 1.1 we have that  $0_0 + x = x = 0_1 + x$  implies  $0_0 = 0_1$ , where  $x$  is an arbitrary vector. If for vector  $x$  we have two inverse vectors  $y_0$  and  $y_1$ . Then we have that  $x + y_0 = 0 = x + y_1$  implies  $y_0 = y_1$ . Finally we have  $0a + 1a = (0 + 1)a = 1a = 0 + 1a$  and so  $0a = 0$ .
10. We have sum of two differentiable real-valued functions or product of scalar and one differentiable real-valued function are again that kind of function. And the function  $f = 0$  would be the 0 in a vector space. Of course, here the field should be the real numbers.
11. All condition is easy to check because there is only one element.
12. We have  $f(-t) + g(-t) = f(t) + g(t)$  and  $cf(-t) = cf(t)$  if  $f$  and  $g$  are both even function. Furthermore,  $f = 0$  is the zero vector. And the field here should be the real numbers.
13. No. If it's a vector space, we have  $0(a_1, a_2) = (0, a_2)$  be the zero vector. But since  $a_2$  is arbitrary, this is a contradiction to the uniqueness of zero vector.
14. Yes. All the condition are preserved when the field is the real numbers.
15. No. Because a real-valued vector scalar multiply with a complex number will not always be a real-valued vector.
16. Yes. All the condition are preserved when the field is the rational numbers.
17. No. Since  $0(a_1, a_2) = (a_1, 0)$  is the zero vector but this will make the zero vector not be unique, it cannot be a vector space.
18. No. We have  $((a_1, a_2) + (b_1, b_2)) + (c_1, c_2) = (a_1 + 2b_1 + 2c_1, a_2 + 3b_2 + 3c_2)$  but  $(a_1, a_2) + ((b_1, b_2) + (c_1, c_2)) = (a_1 + 2b_1 + 4c_1, a_2 + 3b_2 + 5c_2)$ .

# Friedberg Linear Algebra Homework Solutions Chapter 2

**Zdzislaw Trzaska**



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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 Mixed Mode Oscillations (MMOs) Zdzislaw Trzaska, 2021-07-29 This book aims to present a survey of a large class of nonlinear dynamical systems exhibiting mixed mode oscillations MMOs It is a sort of a guide to systems related to MMOs that features material from original research papers including the author s own studies The material is presented in seven chapters divided into sections Usually the first sections are of an introductory nature explain phenomena and exhibit numerical results More advanced investigations are presented in the subsequent sections Coverage includes Dynamic behavior of nonlinear systems Fundamentals of processes exhibiting MMOs Mechanism and function of an structure of MMOs patterns Analysis of MMOs in electric circuits and systems MMOs in chemistry biology and medicine MMOs in mechanics and transport vehicles MMOs in fractional order systems This is the first extensive description of these topics and the interpretation of analytical results and those obtained from computer simulations with the MATLAB environment The book provides the readers with better understanding of the nature of MMOs richness of their behaviors and interesting applications

Introduction to Linear Algebra with Applications Stephen H. Friedberg, Arnold J. Insel, 1986 Scientific and Technical Books and Serials in Print , 1989 **The Publishers' Trade List Annual** , 1985 **The American Mathematical Monthly** , 1979 Includes articles as well as notes and other features about mathematics and the profession

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Wells,1995      **Theories of Computability** Nicholas Pippenger,1997-05-28 A mathematically sophisticated introduction to Turing s theory Boolean functions automata and formal languages      Books in Print ,1991      **Whitaker's Cumulative Book List** ,1979      *Transportation Planning System Documentation* ,1967      **Transportation Planning System Documentation Bibliography** Auerbach Corporation,1967      **Books in Print Supplement** ,1984      **Choice** ,1979  
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