LINEAR ALGEBRA – Solved Exercises 2

(Real and complex finite-dimensional vector spaces)

Nicolae Cotfas, version 16-Feb. 2022 (for future updates see   https://unibuc.ro/user/nicolae.cotfas/)

A PARTIAL EVALUATION A

■ Exercise 1

A1 Prove that
$$\mathcal{B} = \{v_1 = (1,0), \ v_2 = (1,1)\}$$
is a basis in the vector space $\mathbb{R}^2$.

A2 Find the dimension of the space
$$\mathcal{V} = \{\, x = (x_1, x_2, x_3) \in \mathbb{R}^3 \mid x_1 + x_2 - x_3 = 0 \,\}.$$

■ Exercise 2

A3 Find the eigenvalues of the linear operator
$$A : \mathbb{R}^3 \longrightarrow \mathbb{R}^3, \quad A(x_1, x_2, x_3) = (x_2, x_1, 2x_3),$$
and describe the corresponding eigenspaces.

A4 Find the eigenvalues of the linear operator
$$A : \mathbb{C}^2 \longrightarrow \mathbb{C}^2, \quad A(z_1, z_2) = (-z_2, z_1).$$
and describe the corresponding eigenspaces.

■ Exercise 3

A5 Is the linear operator
$$A : \mathbb{R}^3 \longrightarrow \mathbb{R}^3,$$
$$A(x_1, x_2, x_3) = (2x_1 + x_2, 2x_2, 3x_3),$$
diagonalizable ?

A6 In $\mathbb{R}^4$, find $\dim(\mathcal{W}_1 + \mathcal{W}_2)$, where
$$\mathcal{W}_1 = \text{span}\{(1,-1,0,2),(0,1,1,1),(1,0,1,3)\},$$
$$\mathcal{W}_2 = \text{span}\{(1,0,0,0),(1,1,1,1),(0,-1,0,2)\}.$$

A7 Find the eigenvalues of the operator A^{-1}, where
$$A : \mathbb{R}^3 \longrightarrow \mathbb{R}^3,$$
$$A(x_1, x_2, x_3) = (x_2 + x_3, x_1 + x_3, x_1 + x_2),$$
and describe the corresponding eigenspaces.

A8 Let $f(x) = x^{20} - 2x^{-15} + 1$ and
$$A : \mathbb{C}^2 \longrightarrow \mathbb{C}^2, \quad A(z_1, z_2) = (-z_2, z_1).$$
Find the eigenvalues of $f(A)$, and describe the corresponding eigenspaces.

■ Some definitions, notations and results

1 Definition.
$\{v_1, v_2, ..., v_n\}$ is a **linearly independent** set of vectors if

$\alpha_1 v_1 + \alpha_2 v_2 + ... + \alpha_n v_n = 0$
$\Downarrow$
$\alpha_1 = \alpha_2 = ... = \alpha_n = 0$

2 Definition. In a vector space over the field $\mathbb{K} = \mathbb{R}$ or $\mathbb{C}$,

$$\text{span}\{v_1, v_2, ..., v_n\} \stackrel{\text{def}}{=} \{\alpha_1 v_1 + \alpha_2 v_2 + ... + \alpha_n v_n \mid \alpha_k \in \mathbb{K}\}$$

3 Definition.
$\mathfrak{B} = \{v_1, v_2, ..., v_n\}$ is a **basis** of $\mathcal{V}$ if
$\mathcal{V} = \text{span}\,\mathfrak{B}$ and $\mathfrak{B}$ linearly indep.

4 Definition.
Dimension of a vector space over $\mathbb{K}$ is
$$\dim_{\mathbb{K}} \mathcal{V} \stackrel{\text{def}}{=} \begin{cases} \text{number of vectors of a basis} & \text{if } \mathcal{V} \neq \{0\}; \\ 0 & \text{if } \mathcal{V} = \{0\}. \end{cases}$$

5 Definition.
The **sum** of the subspaces $\mathcal{W}_1, \mathcal{W}_2 \subseteq \mathcal{V}$ is
$$\mathcal{W}_1 + \mathcal{W}_2 \stackrel{\text{def}}{=} \left\{ w_1 + w_2 \,\middle|\, \begin{matrix} w_1 \in \mathcal{W}_1 \\ w_2 \in \mathcal{W}_2 \end{matrix} \right\}$$

6 Definition.
Linear operator $A : \mathcal{V} \to \mathcal{V}$ is **diagonalizable** if there exists an basis of $\mathcal{V}$ consisting of eigenvectors of A.

7 Definition. In a Hilbert space $\mathcal{H}$:
An operator $A : \mathcal{H} \to \mathcal{H}$ is a **self-adjoint operator** if $(Ax, y) = (x, Ay)$ $\forall x, y \in \mathcal{H}$.

B PARTIAL EVALUATION B

■ Exercise 1

Solve the differential equations

B1 $y'' + 2y' - 3y = 0.$

B2 $y'' + 2y' + y = 0.$

B3 $y'' + 2y' + 3y = 0.$

■ Exercise 2

B4 Prove that the linear operator
$$A : \mathbb{C}^3 \longrightarrow \mathbb{C}^3, \quad A(x_1, x_2, x_3) = (x_3, x_2, x_1).$$
is self-adjoint, and find its eigenvalues/eigenvectors.

B5 Prove that the linear operator
$$U : \mathbb{C}^2 \longrightarrow \mathbb{C}^2, \quad U(x_1, x_2) = \tfrac{1}{\sqrt{2}}(x_1 + x_2, x_1 - x_2).$$
is unitary, and find its eigenvalues/eigenvectors.

■ Exercise 3

Let $s \in \{1, 2, 3, ...\}$, $d = 2s + 1$, and $\mathcal{H}$ be the complex Hilbert space of all the functions
$$\psi : \{-s, -s+1, ..., s-1, s\} \longrightarrow \mathbb{C}$$
with the usual scalar product
$$\langle \varphi, \psi \rangle = \sum_{n=-s}^{s} \overline{\varphi(n)}\, \psi(n).$$

B6 Prove that the parity operator
$$\Pi : \mathcal{H} \to \mathcal{H} : \psi \mapsto \Pi\psi, \quad (\Pi\psi)(n) = \psi(-n).$$
is a self-adjoint operator.

B7 Find the eigenvalues of Π and the dimension of the corresponding eigenspaces.

B8 Prove that the Fourier transform
$$F : \mathcal{H} \to \mathcal{H} : \psi \mapsto F[\psi].$$
$$(F[\psi])(k) = \tfrac{1}{\sqrt{d}} \sum_{n=-s}^{s} e^{-\frac{2\pi i}{d} kn}\, \psi(n),$$
is a unitary transform.

B9 Prove that the operators
$$Q : \mathcal{H} \to \mathcal{H} : \psi \mapsto Q\psi, \quad (Q\psi)(n) = n\,\psi(n).$$
$$P : \mathcal{H} \to \mathcal{H}, \quad P = F^+ Q F.$$
are self-adjoint, and find their eigenvalues and the corresponding eigenfunctions.

8 Definition. In a Hilbert space $\mathcal{H}$:
An operator $A : \mathcal{H} \to \mathcal{H}$ is a **unitary operator** if $(Ax, Ay) = (x, y)$ $\forall x, y \in \mathcal{H}$.

9 Definition. In the case of vector space over $\mathbb{K} = \mathbb{R}$ or $\mathbb{C}$,

λ is an **eigenvalue** of a linear operator $A : \mathcal{V} \to \mathcal{V}$ if
- $\lambda \in \mathbb{K}$ and
- there exists $v \in \mathcal{V}$, $v \neq 0$ (**eigenvector** corresp. to λ) such that $Av = \lambda v$

The **eigenspace** corresponding to λ is $\{\, x \mid Ax = \lambda x \,\}$.

10 Theorem. In the case of vector space over $\mathbb{K} = \mathbb{R}$ or $\mathbb{C}$,

λ is an eigenvalue of a linear operator $A : \mathcal{V} \to \mathcal{V}$ $\Leftrightarrow$
- $\lambda \in \mathbb{K}$ and
- λ is a root of the equation
$$\begin{vmatrix} a_1^1 - \lambda & a_2^1 & \cdots & a_n^1 \\ a_1^2 & a_2^2 - \lambda & \cdots & a_n^2 \\ \vdots & \vdots & \ddots & \vdots \\ a_1^n & a_2^n & \cdots & a_n^n - \lambda \end{vmatrix} = 0$$

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behavioral notions Models for Concurrency analyzes the subject in terms of events and their temporal relationship rather than on global states It presents a comprehensive analysis of model theory applied to concurrent protocols and seeks to provide a theory of concurrency that is both intuitively appealing and rigorously based on mathematical foundations The book is divided into three main sections The first introduces the required concepts from model theory details the structures that are used to model concurrency gives an in depth description and explanation of the semantics of a simple language that allows concurrent execution of sequential programs and deals with the question of resolving executions into higher level and lower level granularities The second and third sections apply the theory developed to practical examples and an exposition of the producer consumer problem with details of two solutions is given The author also deals with message passing as opposed to shared memory **Classifications of Abelian Groups and Pontrjagin Duality** Peter Loth,1998-09-16 In the first part of this book the reader is introduced to the theory of abelian groups focusing on the classification problem The structure of totally projective p groups is determined and Hill s version of Ulm s Theorem is proved It is shown how this classification theorem is generalized to larger classes of abelian groups such as the balanced projective groups and Warfield groups A variety of characterizations of these groups is proved generalizing corresponding results for totally projective p groups In the second part of this text the author studies certain classes of compact abelian groups using Pontrjagin duality After providing the necessary tools for dualization the structure of the compact groups dual to the totally projective p groups balanced projective groups and Warfield groups is established Finally the duals of completely decomposable groups and Butler groups are studied Supplemented with numerous exercises and research problems this book is suitable for graduate students as well as undergraduate students with a sufficient background in algebra and topology **Theory of Generalized Inverses Over Commutative Rings** K.P.S. Bhaskara Rao,2002-03-21 The theory of generalized inverses of real or complex matrices has been expertly developed and documented But the generalized inverses of matrices over rings have received comprehensive treatment only recently In this book the author who contributed to the research and development of the theory explains his results The subject of generalized inverses of matrices over rings has now reached a state suitable for a comprehensive treatment this book provides just that for mathematicians algebraists and control theorists *JMSJ* Nihon Sūgakkai,1997 **Subject Guide to Books in Print** ,1997 **Library of Congress Subject Headings** Library of Congress,Library of Congress. Subject Cataloging Division,1975 **The American Mathematical Monthly** ,1894 **Mathematical Reviews** ,2007 *Books of 1921-1925* Chicago Public Library,1927

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