

MATH 436 Final Exam Solutions (Spring 2008)

1. (a) (5 points) State the Real Spectral Theorem.

Solution. Let V be a real inner-product space, and $T \in \mathcal{L}(V)$. There exists an orthonormal basis consisting of eigenvectors of T if and only if T is self-adjoint.

- (b) (6 points) Let V be a real inner-product space and let $T \in \mathcal{L}(V)$. Is T diagonalizable if it is a normal operator? Is T diagonalizable if it is an isometry? Explain.

Solution. The answer to both questions is NO. An isometry is normal, so it is enough to give an example of an isometry which is not diagonalizable. Let $V = \mathbb{R}^2$ and T be the rotation by an angle $0 < \theta < \pi$. In terms of matrices this is

$$\begin{pmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{pmatrix}$$

where T is an isometry which has no eigenvectors.

2. (10 points) Suppose V is an inner-product space (real or complex). Let $T \in \mathcal{L}(V)$. Prove that the eigenvalues of T^*T are real non-negative numbers.

Solution. Let $x \neq 0$ be an eigenvector of T^*T with eigenvalue λ . Then

$$\lambda \langle x, x \rangle = \langle \lambda x, x \rangle = \langle T^*T x, x \rangle = \langle T x, T x \rangle.$$

Hence $\lambda = \langle T x, T x \rangle / \langle x, x \rangle$. Since $\langle x, x \rangle$ is a real positive number and $\langle T x, T x \rangle$ is a real non-negative number, we conclude that λ is a real non-negative number.

3. (10 points) Let V be the subspace of $\mathbb{R}^5$ spanned by

$$(3, 2, 0, 0), \quad (-1, 1, -3, 0), \quad (5, 2, 1, 0)$$

Find a basis of V .

Solution. Note that $(-1, 1, -3, 0) + 5(3, 2, 1, 0) = (24, 16, 0, 0) = 8(3, 2, 0, 0)$, so $\dim(V) \leq 2$. On the other hand, since $(3, 2, 1, 0)$ and $(-1, 1, -3, 0)$ are clearly linearly independent, $\dim(V) \geq 2$. Therefore, $\dim(V) = 2$ and $\{(3, 2, 1, 0), (-1, 1, -3, 0)\}$ form a basis.

4. (10 points) Let A be a complex matrix with characteristic polynomial $\chi_A(t) = (t-1)^3$. Describe the possible Jordan forms of A .

Solution. The number of Jordan forms is equal to the number of ways partitions of 3 into non-increasing sums of positive integers. There are three of those: $3 = 3$, $3 = 2 + 1$, and $3 = 1 + 1 + 1$. The corresponding matrices are

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

Math 436

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Table of Contents Math 436

1. Understanding the eBook Math 436
 - The Rise of Digital Reading Math 436
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 436
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math 436
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 436
 - Personalized Recommendations

- Math 436 User Reviews and Ratings
- Math 436 and Bestseller Lists
- 5. Accessing Math 436 Free and Paid eBooks
 - Math 436 Public Domain eBooks
 - Math 436 eBook Subscription Services
 - Math 436 Budget-Friendly Options
- 6. Navigating Math 436 eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 436 Compatibility with Devices
 - Math 436 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 436
 - Highlighting and Note-Taking Math 436
 - Interactive Elements Math 436
- 8. Staying Engaged with Math 436
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 436
- 9. Balancing eBooks and Physical Books Math 436
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 436
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Math 436
 - Setting Reading Goals Math 436
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math 436
 - Fact-Checking eBook Content of Math 436

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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