MATH 436 Final Exam Solutions (Spring 2008)

(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) (5 points) Let V be a real inner-product space and let T ∈ 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

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

Then T is an isometry which has no eigenvectors.

 (10 points) Suppose V is an inner-product space (real or complex). Let T ∈ L(V). Prove that the eigenvalues of T*T are real non-negative numbers.

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

$$\lambda(v, v) = \langle \lambda v, v \rangle = \langle T^*Tv, v \rangle = \langle Tv, Tv \rangle.$$

Hence $\lambda = (Tv, Tv)/(v, v)$. Since (v, v) is a real positive number and (Tv, Tv) is a real non-negative number, we conclude that λ is a real non-negative number.

(10 points) Let V be the subspace of R⁴ spanned by

$$(3, 2, 0, 0), (-1, 1, -5, 0), (5, 3, 1, 0).$$

Find a basis of V.

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

 (10 points) Let A be a complex matrix with characteristic polynomial x(x+1)(x−1)³. Describe the possible Jordan forms of A.

Solution. The number of Jordan forms is equal to the number of decompositions 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

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

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presented which stems from a fleshed out semiotic theory Second experimental advances whose results are published here for the first time appear in various studies by Jonz Chihara et al Oller et al and Taira This work is well researched and illustrated It includes figures tables appendices a glossary and an index It will be a valuable tool for language and literacy The Automobile .1913 testers and teachers The Publisher ,1901 Resources in Education ,1995 Mechanic and World of Science ,1907 The Publishers' Circular ,1865 **English Mechanic and Mirror of Science** Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1976 **Publishers'** Circular and Booksellers' Record of British and Foreign Literature ,1901 The Publishers' Circular and General The Publishers' Record of British and Foreign Literature, 1865 Publishers' circular and booksellers' record, 1865 Circular and Booksellers' Record of British and Foreign Literature, 1901 **English Mechanic and Mirror of Science** Current Index to Journals in Education ,1999 and Art ,1906 International Books in Print ,1990 **Cumulated Index** Medicus, 1994 Index Medicus, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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