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Lang undergraduate algebra solutions

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The present volume contains all the exercises and their solutions from Lang's Linear Algebra textbook. The goal is to provide students and teachers with a comprehensive set of worked-out exercises, as solving problems is an essential part of the learning process. This solutions manual covers all topics in linear algebra typically taught at the undergraduate level, including vector spaces, matrices and linear maps, eigenvectors and eigenvalues, determinants, diagonalization, unitary maps and matrices, triangulation, Jordan canonical form, and convex sets. As a result, it can be helpful to anyone learning or teaching linear algebra at the college level. To facilitate understanding of more involved chapters, it is recommended that readers work through all problems in Chapters I, II, III, and IV, as earlier exercises are often useful in solving later problems. However, for conciseness, only necessary arguments have been included, leaving readers to fill in details for complete proofs. The authors would like to thank Serge Lang for the opportunity to work on this solutions manual, as well as their brother Karim and Steve Miller for their helpful comments and support. Let V be a vector space. Using properties VS 1 through VS 8, show that if c is a number then cO = O. Solution: We have c0=(0+0)=c0+c0 but we also have c0=0+c0, hence c0+c0=0+c0. Note: The QR code mentioned in the original text could not be displayed and refers to an app for downloading educational resources.