

Sample problems for Linear Algebra,

Problem 1. Find a 2×2 matrix A that has eigenvalues $\lambda_1 = -1$ and corresponding eigenvectors:

$$\mathbf{v}_1 = \begin{bmatrix} 5 \\ -3 \end{bmatrix}, \quad \mathbf{v}_2 = \begin{bmatrix} 3 \\ -2 \end{bmatrix}.$$

Problem 2. If possible, diagonalize the following matrices:

$$A = \begin{bmatrix} 5 & 0 & 0 \\ -4 & 3 & 0 \\ 1 & -3 & -2 \end{bmatrix}, \quad B = \begin{bmatrix} 1 & 1 & 1 \\ -2 & -2 & -1 \\ 0 & 0 & -1 \end{bmatrix}$$

Problem 3. Compute A^{100} for $A = \begin{bmatrix} 5 & -4 \\ 2 & -1 \end{bmatrix}$.

Problem 4.

(a) Prove that if A is diagonalizable, then A^T is diagonalizable.

(b) Prove that if the eigenvectors of A form an orthogonal basis (A is "normal")

Algebra Common Core Sample Problems

M Carnoy



Algebra Common Core Sample Problems:

Whispering the Techniques of Language: An Emotional Journey through **Algebra Common Core Sample Problems**

In a digitally-driven world where displays reign great and immediate transmission drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within words usually go unheard. However, nestled within the pages of **Algebra Common Core Sample Problems** a fascinating literary value sporting with fresh feelings, lies an extraordinary journey waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus invites readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the cloth of every word. Within the emotional depths of this touching evaluation, we shall embark upon a genuine exploration of the book is primary styles, dissect their fascinating publishing model, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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