

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

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