
Matrix Algebra Problems And Solutions

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 augmented matrix. You may first want to insert "1"s and "0"s where appropriate. CHAPTER 8:
 MATRICES and DETERMINANTS Linear algebra - Practice problems for nal 1. Diagonalize the matrix

$$A = \begin{pmatrix} 2 & 4 & 3 & 0 & 0 & 3 & 4 & 9 & 0 & 0 & 3 & 3 & 5 \\ 0 & 1 & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \\ 0 & 3 & 0 & 1 & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \end{pmatrix}$$
 Solution. To find the eigenvalues, compute $\det(A - \lambda I) = \det \begin{pmatrix} 2-\lambda & 4 & 3 & 0 & 0 & 3 & 4 & 9 & 0 & 0 & 3 & 3 & 5 \\ 0 & 1-\lambda & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \\ 0 & 3 & 0 & 1 & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \end{pmatrix} = (3-\lambda)(4-\lambda)(3-\lambda)$. So the eigenvalues are $\lambda = 3$ and $\lambda = 4$. We can find two linearly independent eigenvectors
 $\begin{pmatrix} 2 & 4 & 3 & 0 & 0 & 3 & 4 & 9 & 0 & 0 & 3 & 3 & 5 \\ 0 & 1 & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \\ 0 & 3 & 0 & 1 & 3 & 5 & 2 & 4 & 1 & 3 & 0 & 3 & 5 \end{pmatrix}$
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 with an interest in matrix algebra (including teachers and students of the subject) who may have a
 need for exercises accompanied by solutions.

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There are problems at the end of each lecture chapter and I have tried to choose problems that
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