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Method with Scaling Chapter 9 The Algebraic Eigenvalue 522 CHAPTER 9. EIGENVECTORS AND EIGENVALUES

Proposition 9.2. Let A be an $n \times n$ matrix over a field K and assume that all the roots of the characteristic polynomial $A(X) = \det(XI - A)$ of A belong to K . For every eigenvalue λ of A , the geometric multiplicity of λ is always less than or equal to its algebraic multiplicity, that is, $\text{geo}(\lambda) \leq \text{alg}(\lambda)$. Proposition 9.3.

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Algebraic Expressions and Identities Class 8 Notes Maths ...

(pf): Let λ be a eigenvalue of A and let x be the corresponding eigenvector, i.e. $Ax = \lambda x$. Let k be the index for which $x^k = |x^k|$. Then $\lambda^k x^k = \lambda^k x^k$ implies $(\lambda^k - \lambda^k)x^k = 0$. It follows that $\lambda^k = \lambda^k$, i.e., $\lambda \in \mathbb{C}$. We know that eigenvalues are roots of the characteristic polynomial $p(\lambda) =$

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Chapter 9 The Algebraic Eigenvalue Problem

124 Linear Algebra. 9.1 The Characteristic Equation. We
begin our development of eigenvalues and eigenvectors with
an example” E. XAMPLE. 9.1. Consider the matrix $A = \begin{pmatrix} 5 & 1 \\ 15 & 1 \end{pmatrix}$. (9.1) An equation of the form $Au = \lambda u$ can be obtained by
inspection: $\begin{pmatrix} 5 & 1 \\ 15 & 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 6 \\ 16 \end{pmatrix} = 4 \begin{pmatrix} 1 \\ 1 \end{pmatrix}$, (9.2) which identi?es ...

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