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For example if $A = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$ then partitioning the vector x similarly we see that $\max_{\|x\|=1} x^T A x = \max_{\|x\|=1} x_2^2 = 1$. Solution 1.9 By the Cauchy-Schwarz inequality, and $x^T = x$, $x^T A x \leq \|x\| \|A x\| = \|x\| \|A^T x\| = \|x\| \|A x\|$. This immediately gives $x^T A x \leq \|A\| \|x\|^2$. If λ is an eigenvalue of A and x is a corresponding unity-norm eigenvector, then $\lambda = x^T A x = x^T \lambda x = \lambda x^T x = \lambda$. Solution 1.10 Since $Q = Q^T$, $Q^T Q = Q^2$, and the ...

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