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Notes On Symmetric Matrices 1 Symmetric Matrices Fact 5 Let A and B be positive semi-definite matrices of size $D \times D$. Let λ, μ be non-negative scalars. Then $A + B \geq 0$. Proof: This follows easily from (2). 2 Caution. The Lebesgue ordering does not have all of the nice properties that the usual ordering of real numbers has. For example, if $A \geq B \geq 0$ then it is not necessarily true that $A^2 \geq B^2$. Apr 10th, 2024

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Chapter 9 Matrices And Transformations 9 MATRICES AND ... Chapter 9 Matrices And Transformations 236 Addition and subtraction of matrices is defined only for matrices of equal order; the sum (difference) of matrices A and B is the matrix obtained by adding (subtracting) the elements in corresponding positions of A and B . Thus $A = \begin{pmatrix} 1 & 2 & 3 \\ -1 & 0 & 0 \end{pmatrix}$ and $B = \begin{pmatrix} -12 & 3 & 4 \\ 3 & -3 & -3 \end{pmatrix} \Rightarrow A+B = \begin{pmatrix} 0 & 5 & 7 \\ -2 & -3 & -3 \end{pmatrix}$ Mar 22th, 2024.

Similar Matrices And Diagonalizable Matrices $\begin{pmatrix} 100 & 0 & -50 & 0 \\ 0 & 3 & 100 & 0 \\ -50 & 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 100 & 0 & 250 & 0 \\ 0 & 9 & 0 & 0 \\ 0 & 0 & -50 & 0 \\ 0 & 0 & 0 & -125 \end{pmatrix}$ and in general $B^k = \begin{pmatrix} (1)^k & 0 & 0 & 0 \\ 0 & (-5)^k & 0 & 0 \\ 0 & 0 & (3)^k & 0 \\ 0 & 0 & 0 & (3)^k \end{pmatrix}$. This example illustrates the general idea: if B is any diagonal matrix and k is any positive integer, then B^k is also a diagonal matrix and each diagonal Apr 13th, 2024

Population And Transition Matrices Stationary Matrices And ... X9.2 Theorem 1 Let P be the transition matrix for a regular Markov chain. 1 There is a unique stationary matrix S that can be found by solving the equation $SP = S$. (shortcut: take transposes and row-reduce the $(n+1) \times n$ matrix $P^T - I$) 2 Given any initial-state matrix S_0 , the state matrix Feb 14th, 2024

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