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It Is Not Easy, In General, To Tell Whether Two Matrices Are Similar And This Is A Question We Will Return To Later In The Class. It Can Be Easy To Tell When They Are Not Similar. Theorem 2.1. If A and B are similar, then $\text{Null}(A) = \text{Null}(B)$ (and so $\text{Rank}(A) = \text{Rank}(B)$). Proof. May 3th, 2024 Notes On Symmetric Matrices 1 Symmetric Matrices Fact 5 Let A and B be positive semi-definite matrices of size $D \times D$. Let α, β be non-negative scalars. Then $A + \alpha B \geq 0$. Proof: This follows easily from (2). 2 Caution. The L 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 $A^2 \geq B^2$. Jan 1th, 2024 Engineering Mathematics 1 Notes

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Similar Matrices And Diagonalizable Matrices $\begin{pmatrix} 100 & 0 & -50 \\ 0 & 0 & 3 \\ 100 & 0 & -50 \end{pmatrix} = \begin{pmatrix} 100 & 0 & 250 \\ 0 & 0 & 9 \\ 100 & 0 & -50 \end{pmatrix} = \begin{pmatrix} 10 & 0 & 0 \\ -125 & 0 & 0 \\ 2 & 0 & 0 \end{pmatrix}$ And In General $B^k = \begin{pmatrix} (1)^k & 0 & 0 \\ 0 & (-5)^k & 0 \\ 0 & 0 & (3)^k \end{pmatrix}$. 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 Jun 2th,

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 $P - I$
 $\begin{pmatrix} 0 & 1 & 1 & 1 & 1 \end{pmatrix}$) 2 Given Any Initial-state Matrix S_0 , The
 State Matrix Jun 1th, 2024 Sage 9.2 Reference Manual:
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