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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  $\alpha, \beta$  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  $\begin{pmatrix} 100 & 0 & -50 \\ 0 & 0 & 3 \end{pmatrix} \begin{pmatrix} 100 & 0 & -50 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 100 & 0 & 250 \\ 0 & 0 & 9 \end{pmatrix}$   $B^3 = \begin{pmatrix} 1 & 0 \\ 0 & -5 \end{pmatrix}$   $B^2 \neq B = \begin{pmatrix} 100 & 0 & 250 \\ 0 & 0 & 9 \end{pmatrix}$   $\begin{pmatrix} 100 & 0 & -50 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 10 & 0 & 0 \\ 0 & -125 & 0 \\ 0 & 0 & 27 \end{pmatrix}$  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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