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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 $A = \begin{bmatrix} 1 & 2 & 3 \\ -1 & 0 & -1 \end{bmatrix}$ And $B = \begin{bmatrix} -1 & 2 & 4 \\ -3 & -3 & -3 \end{bmatrix} \Rightarrow A+B = \begin{bmatrix} 0 & 4 & 7 \\ -4 & -3 & -4 \end{bmatrix}$ Feb 10th, 2024

Similar Matrices And Diagonalizable Matrices

$\begin{bmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 25 & 0 \\ 0 & 0 & 9 \end{bmatrix}$ $B^3 = \begin{bmatrix} 1 & 0 & 0 \\ 0 & -125 & 0 \\ 0 & 0 & 27 \end{bmatrix}$ And In General $B^k = \begin{bmatrix} 1 & 0 & 0 \\ 0 & (-5)^k & 0 \\ 0 & 0 & 3^k \end{bmatrix}$. 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 18th, 2024

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