## Spring 2021 Chapter 4 Part 2

Hi Autar, when you submit this form, the owner will be able to see your name and email address. 1. If the determinant of a square matrix [A] is zero, then the following are (is) true [A] does not have an inverse [A] has an inverse [A] is singular if [A][X]=[C] is a set of simultaneous linear equations, then [X] is unique if [A][X]=[C] is a set of simultaneous linear equations, then [X] is not unique 2. LU decomposition method for solving a set of equations of form uses the following step [L][X]=[Z] followed by [U][Z]=[C]) [L][Z]=[C] followed by [U][X]=[Z] ) [U][Z]=[C] followed by [L][X]=[Z]  $\bigcup$  [U][X]=[Z] followed by [L][Z]=[C] 3. Given the decomposition of a square matrix [A]=[L][U], where [L] has ones in the diagonal, the determinant of [A] is Product of diagonal elements of [A]

Product of diagonal elements of [U]
Sum of the diagonal elements of [A]
Sum of diagonal elements of [U]
4. LU decomposition method is computationally more efficient than Naïve Gauss elimination for solving
a single set of simultaneous linear equations
multiple sets of simultaneous linear equations with different coefficient matrices and same right hand side vectors.
multiple sets of simultaneous linear equations with same coefficient matrix and different right hand side vectors
Submit

This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

Powered by Microsoft Forms | Privacy and cookies | Terms of use