MTH213 exams NOUN

The zeroeth divided difference of the function f, with respect toxidenotedbyf[xi]xidenotedbyf[xi]can be written as **f[xi]=f(xi)**

* One of these is a method of solving system of linear equations **Inverse method**
* If all the elements above the main diagonal of a square matrix vanish, the matrix is known as **lower triangular**
* One of these describes the Lagrangeâ??s interpolating polynomial P(x) **P(x)=L0(x)f0+L1(x)f1+L2(x)f2+L3(x)f3**
* The interpolating polynomial of degree≤nwiththenodesx0,x1,â?¦.,xn≤nwiththenodesx0,x1,â?¦.,xncan be written as **f[xi]=f(xi)**
* A matrix in which all the non-diagonal elements vanish is called â?¦..... matrix **diagonal**
* Stirling's formula for interpolation is given by **Pn(x)=f(x0)+s2[df12+d−12]+s22!d2f0**
* When the number of rows is equal to the number of columns in a matrix, it is called â?¦â?¦. matrix  **square**
* Iterative methods of the solutions of systems of equations are â?¦â?¦â?¦â?¦â?¦..  **finite**
* The technique of determining an approximate value of f(x) for a non-tabular value of x which lies in the internal [a, b] is referred to as **interpolation**