

A system of linear equations is said to be inconsistent if it has _____
No solution

The study of interpolation is based on the calculus of
Finite differences

Apply Gauss-Seidel iteration method to obtain the first iteration of the equations $4x+y-2z=17$, $3x+5y-z=-18$, $2x-3y+6z=25$
4.25, -6.15, -0.325

Numerical scheme for interpolating values of y near the beginning of a set of tabulated values is called?
Newton's forward interpolation

Which of the following theorems of calculus is not needed in numerical method
Newton's meal value theorem

Evaluate the differences $\Delta^3[a^2x^2+a^1x+a^0]$
0

Given that forward differences is described by $\Delta^p y_r = \Delta^{p-1} y_{r+1} - \Delta^{p-1} y_r$, obtain
 $\Delta^2 y_0$
 $y_2 - 2y_1 + y_0$

Define the finite scheme $\Delta^2 f_k$
 $f_k - 2f_{k-1} + f_{k-2}$

Given $y_x = 0.23967, 0.28060, 0.31788, 0.35209, 0.38368$, evaluate $\Delta^4 y_x$
-0.0013

_____ is the technique of estimating the value of a function for any intermediate value of the independent variable
Interpolation

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