

## Introduction To The Numerical Solution Of Markov Chains

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**Introduction to the Numerical Solution of IVP for ODE**

solution  $y = w(x)$  to the differential equation  $y' = f(x, y)$  satisfying the initial condition  $w(x_0) = z$  is defined for all  $x \in [x_0, X_M]$  and satisfies  $k_v(x) \leq w(x) \leq k_u(x)$  for all  $x \in [x_0, X_M]$ . A solution which is stable on  $[x_0, X_M]$  (i.e. stable on  $[x_0, X_M]$  for each  $XM$  and with  $\epsilon$  independent of  $XM$ ) is said to be stable in the sense of Lyapunov.

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These are techniques used to find a specific solution to a mathematical problem. a. analytical Methods b. mathematical Methods c. scientific Methods d. numerical Methods \_\_\_\_ 5. These are usually the number of decimal places that can be accepted as an answer from a numerical solution. a. number of nths b. number of significant figures

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