



0 mit-iv - Initial Value Problems For andinary tigerential Equations: (i) sing a step Methods (on pointwise Methods: A services for y is terms of powers of a. From which the value of y can be obtained by direct cubstitution The Methods of Taylor and picerd belong to this life. To these Methods y is approximated by a truncated Series and each term of the Series is a function of x. The insquemention about the Curve at one print Is used and the Sochrtin is not Henried. Hence these Methods are Called Single step promote. (ii) Multistep Methods Ion slep by step Methods In a set of tabulated values of a and y, we obtain y by iterative process the memode of Evler. Runge-Kutta, Milne. Adam. Bachgern etc., belong to litro type. Here the Values of y me computed by short steps you equal intervals hay the intependent variable. These values one iterated.

till we get the desired accuracy. Hence these Methods are called step by step Methods.