1023-H5-1084   **Dick Jardine*** (`rjardine@keene.edu`), 229 Main Street MS2010, Keene, NH 03431-2010. *Euler's Method for Differential Equations.*

Although Euler originated many, many mathematical methods, students of the calculus and differential equations only think of Euler's Method as a technique to obtain numerical approximations to solutions of differential equations. This presentation introduces Euler's development of the method, reviews several derivations of the algorithm, and addresses the limitations of the procedure in obtaining numerical solutions. (Received September 25, 2006)