On the local convergence of secant-type methods

In this paper we carry out a local convergence study for secant-type methods. Our goal is to enlarge the radius of convergence, without increasing the necessary hypothesis. Finally, some numerical tests and comparisons with early results are analyzed.

Key words. secant's method, local convergence, radius of convergence.

AMS(MOS) classification. 65B05, 47H17, 49M15