The aim of this paper is to consider as a starting point the value $E_0 = \pi$ in the theorems of semilocal convergence of Kantorovich, Gutiérrez, $\alpha$-theory of Smale and the $\alpha$-theory of Wang-Zhao, to compare the convergence conditions obtained. Once set $E_0$, one should calculate the parameters listed in the statement of these theorem. So, we will generalize the study of Diloné-Gutiérrez for the case $E_0 = M$. Numeric and graphic calculations were obtained by applying Mathematica V10.

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