George A Anastassiou* (ganastss@memphis.edu), Department of Mathematical Sciences,
University of Memphis, Memphis, TN 38152. Lp convergence with rates of smooth Picard singular
operators. Preliminary report.

We continue our study of the earlier introduced by the presenter smooth Picard singular integral operators over R.We research their Lp convergence with rates to the unit operator over smooth Lp functions,p>1. The produced Jackson type inequalities involve the higher order Lp modulus of smmothness with respect to the highest order existing derivative of the engaged function. The investigated operators are not positive. (Received April 18, 2005)