

## RATIONAL APPROXIMATION IN $L_1(\Gamma)$ METRIC ON CURVES IN THE COMPLEX PLANE

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*Abstract.* In this paper, the approximation for the class of functions  $L_1(\Gamma)$  is investigated by means of rational functions of the form  $R_n(z) = \sum_{k=-n}^n a_k(z-b)^k$ . This class is difficult of access and little studied. The functions from  $L_1(\Gamma)$  satisfying natural condition of Lipschitz on the curve  $\Gamma$ , namely,  $\|f(z(s+h)) - f(z(s))\|_{L_1(\Gamma)} \leq \text{const}|h|^\alpha$  are considered. The corresponding approximation theorem is proved.

*Mathematics subject classification (2010):* 30E10, 41A20.

*Keywords and phrases:* Rational approximation, Hölder class, rectifiable Jordan curve, complex plane.

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