CARPATHIAN J. MATH. **22** (2006), No. 1 - 2, 57 - 64

Successive approximations for the solution of second order advanced differential equations

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ABSTRACT. For the initial value problem associated with second order advanced differential equation on Banach space, it is constructed a numerical method to approximate the solution. The method uses the sequence of Picard successive approximations and the trapezoidal quadrature rule (adapted for Lipschitzian functions with values in Banach spaces).

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