

UDC XXX.XX

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# TITLE OF THE PAPER

**INTRODUCTION.** Here the text of the article begins. The introduction should contain a general statement of the problem, it's connection with important scientific or practical problems; analysis of recent researches and publications, which are devoted to solving this problems; the wording of paper's purposes.

If you want, you can bring here some auxiliary results which are needed in further.

**Definition 1.** [1] *Text of definition.*

In the text you can refer to sources from the bibliography with the command `\cite{Kilb, Arestov2}`. It will be printed as follows: [1, 2].

## MAIN RESULTS

This section contains the main results of research with the full justification of scientific results. You can divide your text into subsections as follows:

### 1. Title of the section.

**1.1. Title of the subsection.** Text of the subsection should begin in the same line as the title of subsection.

Important formulas should be numbered (within the command `\eqno(n)` or using automatic enumeration):

$$\dot{x} = \varepsilon X(t, x), \quad (1)$$

where  $x$  is an  $n$ -dimensional vector,  $\varepsilon > 0$  — small parameter,  $X$  is an  $n$ -dimensional vector-function, time  $t \in I = [0, L\varepsilon^{-1}]$ .

You can draw up bulky formulas more compact using the environment `array`

$$\begin{aligned} \varepsilon \left\| \int_0^t \varphi(s, y(s)) ds \right\| &\leq \varepsilon \left\| \sum_{i=0}^{k-1} \int_{t_i}^{t_{i+1}} [\varphi(s, y(s)) - \varphi(s, y_i)] ds + \right. \\ &\quad \left. + \int_{t_k}^t \varphi(s, y(s)) ds + \sum_{i=0}^{k-1} \int_{t_i}^{t_{i+1}} \varphi(s, y_i) ds \right\| \leq \\ &\leq \varepsilon \sum_{i=0}^{k-1} \int_{t_i}^{t_{i+1}} \|\varphi(s, y(s)) - \varphi(s, y_i)\| ds + \varepsilon \int_{t_k}^t \|\varphi(s, y(s))\| ds + \\ &\quad + \varepsilon \sum_{i=0}^{k-1} \left\| \int_{t_i}^{t_{i+1}} \varphi(s, y_i) ds \right\|. \end{aligned} \quad (2)$$

To formulate a theorem use environment `theorem`

**Theorem 1** (theorem's title). [1] *Let us ...*

*Formulation of the theorem.*

**Proof.** Place your proof after the command `\proof`.

... which concludes the proof.

**Remark 1.** *If you want to note something important, use environment **remark**.*

**Lemma.** [2] *To formulate a lemma use environment **lemma** or **lemma\***.*

**Consequence.** *To formulate a corollary use environment **consequence** or **consequence\***.*

**Example 1.** *To formulate an example use environment **example** or **example\***.*

If you have a need to insert a graphic into your work, use the command `\includegraphics` inside the environment **figure**. With this command, you can insert the image in .png, .jpeg, .pdf, and .eps formats.



Fig. 1. Caption of the figure



We offer you to simulate text wrap by placing the text and image in two columns: open environment **multicols** with argument {2}, then insert the image. You should choose the right amount of the text to “balance” the size of the figure in the next column. If you are not satisfied with the spacing between section 2 and section columns in one column, use the vertical displacements commands.



Fig. 3. Caption of the third figure

Unfortunately, in this case will not work the **figure** environment and, consequently, will not be able to use the command `\caption`. However, the caption can be placed in plain text, centered below the image.

**CONCLUSION.** This section presents the conclusion of this study and the prospects for further research in this direction.

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## Резюме

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[illegible]

1. Samko, S. G., Kilbas, A. A. and Marichev, O. I. (1987). *Integraly i proizvodnye drobnogo poryadka i nekotorye ih prilozheniya* [Fractional integrals and derivatives with some applications]. Minsk: Nauka i tekhnika, 688 p.
2. Arestov, V. V. (1981). Ob integralnykh neravenstvakh dlya trigonometricheskikh polinomov i ikh proizvodnykh [About integral inequalities for trigonometrical polynomials and theirs derivatives]. *Izv. AN USSR. Ser. matem.*, Vol. 45, P. 3–22.
3. Fikhtengolts, G. M. (2001). *Kurs differentsialnogo i integralnogo ischisleniya* [A Course of Differential and Integral Calculus], Vol. II. Moscow: Fizmatlit, 810 p.
4. Gradshteyn, I. S., Ryzhik, I. M. (1963). *Tablitsy sntegralov, sum i proizvedeniy* [Tables of integrals, sums and derivatives]. Moscow: GITTL, 1100 p.
5. Storozhenko, E. A. (1996). K odnoi zadache Malera o nulyakh polinoma i ego proizvodnoy [For one Mahler's problem about zeros of polynomial and its derivative]. *Matem. sbornik*, Vol. 187, nıS5, P. 111–120.

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6. Storozhenko, E. A., Kovachenko, L. G. (2014). Neravenstvo dlya drobnykh integralov kompleksnykh polinomov v  $L_0$  [An inequality for fractional order integrals of complex-valued polynomials in  $L_0$ ]. *Matem. zapiski*, Vol. 96, nıS4. – P. 633–636.
  7. Borwein, P., Erdelyi, T. (1995). *Polynomials and polynomial inequalities* New York: Springer-Verlag, 482 p.
  8. Polia, G., Sege, G. (1978). *Zadachi i teoremy iz analiza [Problems and theorems from calculus]*, Vol I. Moscow: Nauka, 391 p.