

Практикум по научному письму

Колчева Юлия Вячеславовна

22 Ноября 2025

РУДН, Москва, Россия

Лабораторная работа 7

Класс документа beamer

The screenshot shows a LaTeX editor interface. On the left, the code editor displays the following LaTeX code:

```
1 \documentclass{beamer}
2 \begin{document}
3 \begin{frame}
4 \titlepage
5 \end{frame}
6 \begin{frame}{Article}
7 Some text about the article.
8 \end{frame}
9 \begin{frame}{Mathematica}
10 A helpful tool for mathematicians.
11 \end{frame}
12 \end{document}
13
```

The code editor has a dark theme with syntax highlighting. To the right of the code editor is a preview area. At the top of the preview area, the date "November 21, 2025" is displayed. Below the date, the title "Article" is shown in blue. Underneath the title, the text "Some text about the article." is displayed in black.

Рис. 1: LaTeX

The screenshot shows a LaTeX editor interface. On the left, the code is displayed in a monospaced font:

```
1 \documentclass{beamer}
2 \begin{document}
3 \begin{frame}{Article}
4 \begin{block}{Example}
5 This is an example of a block.
6 \end{block}
7 \begin{block}{Euclid's theorem}
8 This is a theorem.
9 \end{block}
10 \end{frame}
11 \end{document}
```

On the right, the output is shown in two sections: "Example" and "Euclid's theorem".

Article

Example
This is an example of a block.

Euclid's theorem
This is a theorem.

Рис. 2: LaTeX

Команда pause

The screenshot shows a LaTeX editor interface with a code editor on the left and a preview area on the right.

Code Editor (Left):

```
1 \documentclass{beamer}
2 \begin{document}
3 \begin{frame}{Article}
4 \begin{block}{Definition}
5 This is a definition.
6 \end{block}
7 \pause
8 \begin{block}{Euclid's theorem}
9 This is a theorem.
10 \end{block}
11 \end{frame}
12
13 \end{document}
14
```

Preview Area (Right):

The preview area displays the output of the LaTeX code. It shows two separate sections: "Definition" and "Euclid's theorem".

Definition
This is a definition.

Euclid's theorem
This is a theorem.

Рис. 3: LaTeX

Команда uncover

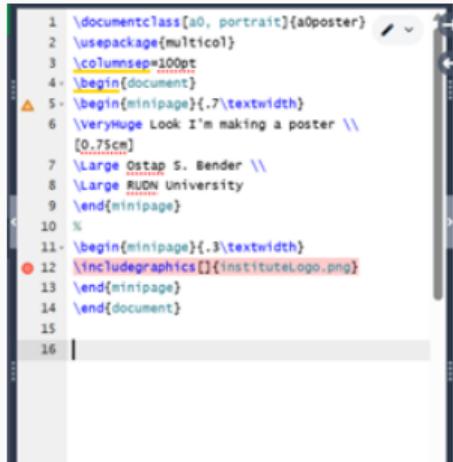
The screenshot shows a LaTeX editor window with two panes. The left pane displays the LaTeX source code:

```
1 \documentclass{beamer}
2 \begin{document}
3 \begin{frame}
4 The derivative of  $f(x) = g(x) \cdot h(x)$ ,
with  $g(x) = x^2$  and  $h(x) = \sin(x)$  equals
5 \begin{align*}
6 f'(x) \uncover{2}{\Rightarrow g'(x) \cdot h(x) +} \\
\uncover{3}{g(x) \cdot h'(x)} \\
&\uncover{4}{= 2x \cdot \sin(x) +} \\
&\uncover{5}{(x^2) \cdot \cos(x).}
7 \end{align*}
8 \end{frame}
9 \end{document}
```

The right pane shows the generated Beamer presentation slide. It contains the text "The derivative of $f(x) = g(x) \cdot h(x)$, with $g(x) = x^2$ and $h(x) = \sin(x)$ equals" followed by the mathematical derivation:

$$\begin{aligned} f'(x) &= g'(x) \cdot h(x) + g(x) \cdot h'(x) \\ &= 2x \cdot \sin(x) + x^2 \cdot \cos(x). \end{aligned}$$

Рис. 4: Программа 5



```
1 \documentclass[a0, portrait]{a0poster}
2 \usepackage{multicol}
3 \columnsep=100pt
4 \begin{document}
5 \begin{minipage}{.7\textwidth}
6 \veryhuge Look I'm making a poster \\
[0.75cm]
7 \Large Ostap S. Bender \\
8 \Large RUDN University
9 \end{minipage}
10 %
11 \begin{minipage}{.3\textwidth}
12 \includegraphics[]{instituteLogo.png}
13 \end{minipage}
14 \end{document}
15
16
```

Look I'm
Ostap S. Bender
RUDN University

Рис. 5: Программа 6

Выводы

- Познакомилась с LaTeX
- Изучила новый пакет
- Научилась работе с презентациями

Спасибо за внимание!