Практикум по научному письму

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Лабораторная работа 8

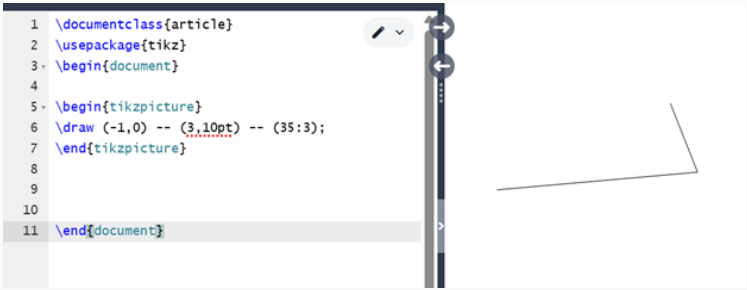
1 \documentclass{article}
2 \usepackage{tikz}
3 \begin{document}
4
5 \begin{tikzpicture}
6 \draw (-1,0) -- (3,10pt) -- (35:3);
7 \end{tikzpicture}
8
9
10
11 \end{document}

Рис. 1: LaTeX

Работа с графиками

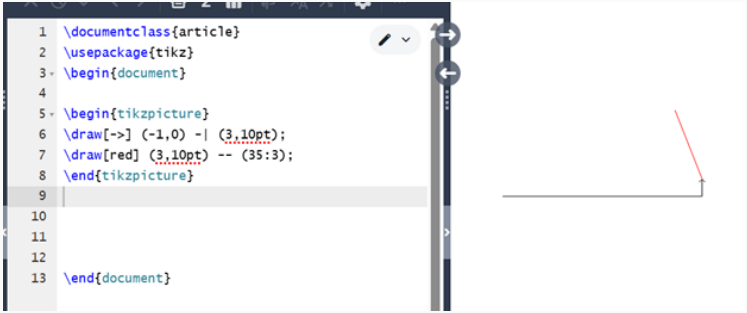

Рис. 2: LaTeX

Работа с графиками

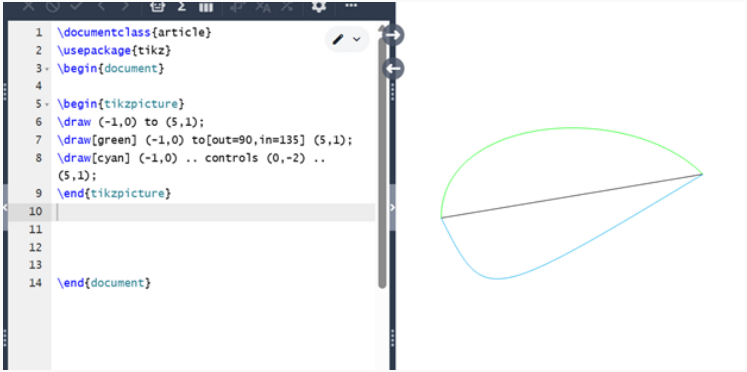

Рис. 3: LaTeX

Работа с графиками

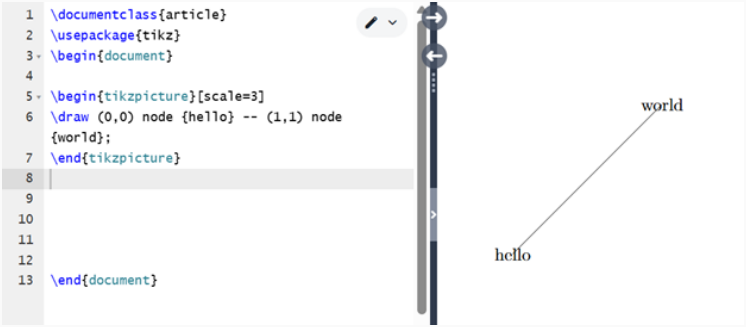

Рис. 4: LaTeX

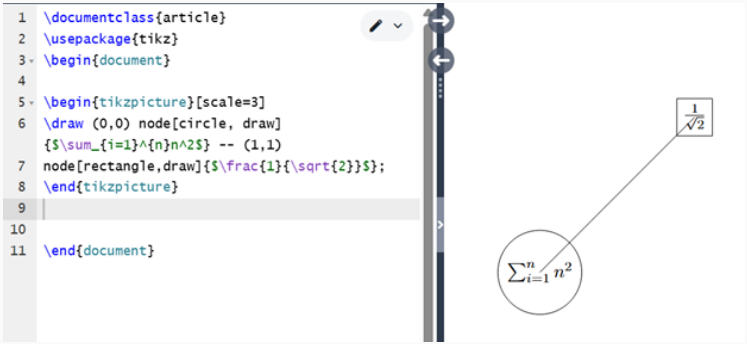
1 \documentclass{article}
2 \usepackage{tikz}
3 \begin{document}
4
5 \begin{tikzpicture}[scale=3]
6 \draw (0,0) node[circle, draw]
{$\sum_{i=1}^{n}n^2$} -- (1,1)
7 node[rectangle,draw]{$\frac{1}{\sqrt{2}}$};
8 \end{tikzpicture}
9
10
11 \end{document}
$\frac{1}{\sqrt{2}}$
$\sum_{i=1}^{n} n^2$

Рис. 5: LaTeX

Работа с графиками

```
\documentclass{article}
\usepackage{tikz}
\begin{document}

\begin{tikzpicture}[scale=2]
% Define the nodes
\node[circle, draw] at (0,0) (a) {A};
\node[rectangle, fill] at (3,0) (b) {};
\node at (3,0.4) (blabel) {B};
\node[rectangle,rounded corners, draw] at
(5,2) (c) {C};
% Draw the paths
\draw[->, green] (a) -- (b) node[midway,
below,black]{2};
\draw[<->, blue] (a) to[out=45, in=135] (b);
\draw[->,red] (b)--(c);
\draw[yellow,dotted,very thick] (b) |- (c);
\draw[<-,cyan] (b) -| (c);
\draw[thick,black] (a).. controls (1,5) ..
(c) node[midway, above]{$\frac{1}{2}$};
\end{tikzpicture}


\end{document}
```

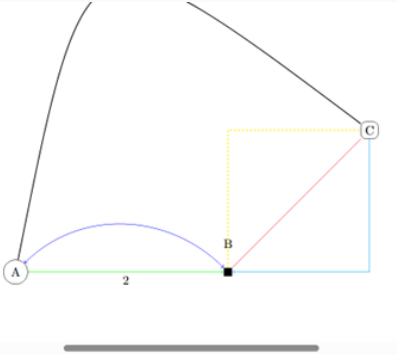

Рис. 6: LaTeX

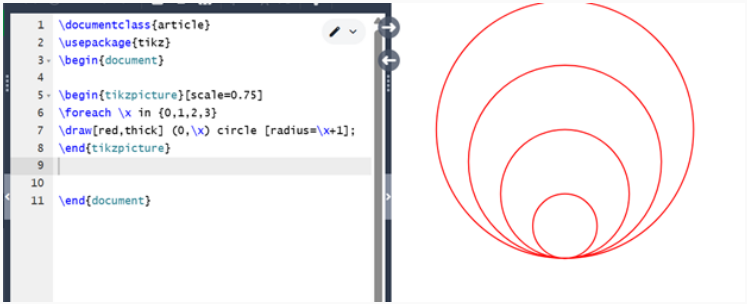
1 \documentclass{article}
2 \usepackage{tikz}
3 \begin{document}
4
5 \begin{tikzpicture}[scale=0.75]
6 \foreach \x in {0,1,2,3}
7 \draw[red,thick] (0,\x) circle [radius=\x+1];
8 \end{tikzpicture}
9
10
11 \end{document}

Рис. 7: LaTeX

Выводы

- Познакомилась с LaTeX
- Изучила новый пакет
- Научилась создавать графики

Спасибо за внимание!