LaTeX Workshop Handout

The purpose of this handout is to provide you with some basic information to successfully start using LaTeX. A step-by-step guide to using Overleaf can be found below:

(1) Create an account at https://www.overleaf.com/.

(2) Click the $\boxed{\text{New Project}}$ button in the top left-hand corner and then select the $\boxed{\text{Blank Project}}$ option from the drop-down menu.

(3) Name your project and click the $\boxed{\text{Create}}$ button.

(4) By default, Overleaf will provide you with a preamble (the section before the `\begin{document}` command) and first section. We recommend that you delete this, and start fresh with the preamble on the back of this handout.

(5) Next, go to a new line and type the command `\begin{document}`. Overleaf will autofill the environment if you press the $\boxed{\text{TAB}}$ key.

(6) Place the text of your document between the `\begin{document}` and `\end{document}` commands.

Helpful Links

Below are some helpful links to get started with LaTeX.

- Basic Information:

    https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes

- Using Color:

    https://www.overleaf.com/learn/latex/Using_colours_in_LaTeX

- Math in LaTeX:

    https://en.wikibooks.org/wiki/LaTeX/Mathematics

- A Tool for Finding Symbols:

    https://detexify.kirelabs.org/classify.html

- For Everything Else:

    https://www.google.com/

Sample Preamble

```
\documentclass[12pt]{amsart}

\usepackage[T1]{fontenc}

\usepackage{amsmath, amssymb, amsthm, amsfonts}

%% End Basic Packages %%


\usepackage[margin=1in]{geometry}

\usepackage{setspace}

\usepackage{xcolor}

\usepackage{graphicx}

\graphicspath{ {./Images/} }

\doublespacing

%% End Spacing Options %%


\theoremstyle{plain}

\newtheorem{theorem}{Theorem}[section]

\newtheorem{lemma}[theorem]{Lemma}

\theoremstyle{definition}

\newtheorem{definition}[theorem]{Definition}

\newtheorem{question}[theorem]{Question}

%% End Environment Definitions %%


\newcommand{\N}{\mathbb{N}}

\newcommand{\Z}{\mathbb{Z}}

\newcommand{\Q}{\mathbb{Q}}

\newcommand{\R}{\mathbb{R}}

%% End Commands %%

%% End Preamble %%
```