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:

2. Click the New Project button in the top left-hand corner and then select the Blank Project option from the drop-down menu.
3. Name your project and click the 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 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}[section]{Theorem}
\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