LaTeX Quick Reference
Provided by the 15-251 TAs

- **Document Template:** Start every document like this:

```
\documentclass{article}
\usepackage{fullpage}

\begin{document}
% Your stuff goes here
\end{document}
```

- **Justification:** Text is fully justified by default. You can use these commands to justify left, center, or right:
  - `\begin{flushleft}`
    `\end{flushleft}`
  - `\begin{center}`
    `\end{center}`
  - `\begin{flushright}`
    `\end{flushright}`

- **Text Styles:** Use `\emph{}` for *emphasized* text `\textbf{}` for **bold**, `\textit{}` for *italics*, `\texttt{}` for `teletype`, `\textrm{}` for roman (normal),

  `In this sentence, only \textbf{these three words} will be bold.`

- **Math mode:** To put simple equations like $x + 2$ into the middle of a sentence, just put dollar signs around it: `the answer is $ x+2 $` .

  To insert an entire equation, centered on its own line, use the `equation` environment:

```
\begin{equation}
  x+2 = 123456789
\end{equation}
```

- **Basic math formatting:**

y^{25}	`y^{25}`
z_0	`z_0`
$\frac{x+2}{y+1}$	`\frac{x+2}{y+1}`
$\sum_{x=1}^{10}$	`\sum_{x=1}^{10}`

- **Unordered lists, ordered lists:**
  - `\begin{itemize}`
    `\item`
    `\item`
    `\end{itemize}`
  - `\begin{enumerate}`
    etc.

- **Using LaTeX:**

`latex myfile.tex`	Compile the file. If there is an error, type q and hit return to exit.
`latex2e myfile.tex`	On some systems you need to run latex2e instead of latex.
`xdvi myfile.dvi`	Display the result on-screen.
`dvips -o myfile.ps myfile.dvi`	Convert to postscript
`lpr -Pprintername myfile.ps`	Print postscript
`dvips -Pprintername myfile.dvi`	Print directly from dvi