Hello this is a sentence. This is another sentence. \LaTeX{} is cool!

This is a sentence that contains an equation $x = y \lor y = x$. 

\[ x + y = y + x \]
\[ 0(x + y) = 0(y + x) \]
\[ 0 = 0 \]

1. Do some work
2. Do some more work
   - I'm in a list!
1. Go shopping
   - Milk
   - Eggs
2. Sleep

<table>
<thead>
<tr>
<th>p</th>
<th>q</th>
<th>p nor q</th>
</tr>
</thead>
<tbody>
<tr>
<td>true</td>
<td>true</td>
<td>false</td>
</tr>
<tr>
<td>true</td>
<td>false</td>
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<tr>
<td>false</td>
<td>false</td>
<td>true</td>
</tr>
<tr>
<td>false</td>
<td>false</td>
<td>&amp;</td>
</tr>
</tbody>
</table>

1 Installation

1.1 Mac OS X
   - TexShop
   - MacTex

1.2 Linux
   - TexLive (check your repos)

1.3 Windows
   - MikTeX (No personal experience)
1.4 Editors

I recommend that you use a text editor with special support for \LaTeX. This includes Emacs, VIM (with appropriate packages installed), TexShop, Eclipse, Sublime, TeXworks. I personally have limited experience with these editors beyond Emacs/VIM, but other TAs may be able to help.

2 Text vs Mathmode

By default, everything you type is in text mode, like this sentence. To use math symbols such as $x^y (x^y)$ and $\sum_0^n (\sum_0^n)$, you need to enter them in math mode, by surrounding them with $, like $x^y$. You can also wrap environments (in a second!) with mathmode.

3 Environments

Environments are a way to specially typeset a paragraph. There are many different environments in \LaTeX, but you only need to know a couple for this class.

In general, typeset text \texttt{foo} in environment \texttt{bar}, you will wrap it with begin/end commands:

\begin{bar}
foo
\end{bar}