Examples of LaTeX Coding

Here is some sample coding you may find useful as you prepare your homework.

1 Begin a New Document

In your LaTeX editor, create a new document and you should initially enter four lines of text.

\documentclass{article}

\begin{document}

Type anything you want. The text of your paper will go here.

\end{document}

You may also want to add some LaTeX packages that give you some initial capabilities. After the opening line \documentclass{article} but before \begin{document}, add these lines:

\usepackage{amssymb}
\usepackage{amsmath}
\usepackage{amsfonts}
\usepackage{amsthm}

2 Changing Your Margins

The default margins for a LaTeX article are rather large. You can alter them to whatever you want in the following way. Add the command

```
\usepackage{geometry}
\geometry{left=1in,right=1in,top=1in,bottom=1in}
```

near the beginning of your document, after the opening line \documentclass{article} but before \begin{document}. This will set all four margins to one inch. To change any of the margins to a different size, simply change the appropriate number in the second line.

I'm not certain what packages are included in your version of LaTeX, so you may need to add the "geometry" to your computer. Let me know if you have any trouble with this.

3 Well-Aligned Equations

$$x^{2}-1 = 0$$

 $(x+1)(x-1) = 0$
 $x = -1 \quad or \quad x = 1.$

The coding for these equations is below. Inside of an array or equation array, the "&" symbol separates columns and the " $\$ " ends a row.