# LaTex Help by Example

The "LaTex Help by Example" items will help you LaTexing your homework. If you have to do something similar when LaTexing your homework, just compare the Example LaTex code to the complied output.

## How to construct a List

**Ex.1**. An ordered list is easy to create with *enumerate*. E.g., the LaTex

### \begin{enumerate}

\item The labels consists of sequential numbers.

\item The label numbers starts at \$1\$ so this item should be auto numbered \$2\$.

\item I thinks this is our \$4^{th}\$ item but LaTex is
auto-counting for us to ensure we do not mess up.
Oops \$\ldots\$ it was the \$3^{rd}\$ item. Thanks Latex!

## \end{enumerate}

creates the ordered (i.e., enumerated/numbered) list

- (1) The labels consists of sequential numbers.
- (2) The label numbers starts at 1 so this item should be auto numbered 2.
- (3) I thinks this is our  $4^{th}$  item but LaTex is auto-counting for us to ensure we do not mess up. Oops ... it was the  $3^{rd}$  item. Thanks Latex!

**Beware 1**. After typing an \item, you must type something (anything except a blank space) before typing your next \item (or finishing off the list with \end{enumerate}).

Beware 2. Do not leave blank lines between the \begin{enumerate} and the \end{enumerate}.

**Ex.2**. For an unordered list, use *itemize* instead of using *enumerate*. E.g., the LaTex

#### \begin{itemize}

\item The labels consists of black dots (sometimes called bullets).

\item The second item is also labeled with a bullet.

#### \end{itemize}

creates the unordered list

- The labels consists of black dots (sometimes called bullets).
- The second item is also labeled with a bullet.

**Ex.3**. This Example shows how to make you own labels in a list. E.g., the LaTex

#### \begin{itemize}

\item[2+3.] Our first item is labeled 2+3.

\item[17.] Our second item is labeled 17.

\end{itemize}

creates the unconventional list

2+3. Our first item is labeled 2+3.

17. Our second item is labeled 17.

For more examples, see Overleaf's Help for Lists at

Overleaf's Help: Lists.