- 1. Quotation marks in TeXare began with two grave accents `` (left of the 1 key) and ended with two small quotes ''. Done incorrectly: "quote" Done correctly: "quote"
- 2. Use inline math mode to denote variables. Let n be an integer, not n.
- 3. Use the symbol ℓ (\ell) instead of l in equations.
- 4. Use the commands for special functions while in math mode. It should be $\log(x)\cos(y)$ not $\log(x)\cos(y)$
- 5. There are some special places where extra spacing in an equation is appropriate, for example:

$$\int_0^1 x^2 dx$$

should have a space between the equation and differential like so

$$\int_0^1 x^2 \, dx$$

this is done by inserting a \backslash , between the equation and the dx which tells TEXto add more space.

6. Remember to enclose any subscript or superscript in $\{\ \}$ so that you get something like

$$\sum_{n=1}^{\infty} \frac{1}{n^2}$$

rather than

$$\sum_{n} = 1^{\infty} \frac{1}{n^2}$$

7. Similar to number 4, use **\text{}** or end inline math mode when using words inside equations. For example:

let
$$S = \{x \in \mathbb{R} | f(x) < c \text{ and } f(x) \in \mathbb{Q} \}$$
 rather than let $S = \{x \in \mathbb{R} | f(x) < candf(x) \in \mathbb{Q} \}$

8. Periods and ellipses:

Written plainly... is not the correct form, use \ldots ...

Also, be careful when trying to write a period after a lower case letter (e.g. like this) the spacing is incorrect without using .\ (e.g. like this)

When writing a period after an uppercase letter, TEX assumes you are abbreviating and not ending a sentence.

- 9. A minus sign with a number must be in math mode, -5 not -5.
- 10. Bear in mind all special symbols that are used in LATEX: # \$ % & ~_ ^ { } > < \
- 11. Remember, every beginning must have an end. Match delimiters and close out every environment you use.