Sample TeX File

Your name here

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1 This is a section

Here is a list:

- Item 1
- Item 2

1.1 Here is a subsection

Proof.

- (a) Numbered item 1
- (b) Numbered item 2

Use \mathrm to make normal text in a math block, such as the d in the integral below:

$$\int_{-7}^{\pi} f(x) \, \mathrm{d}x \tag{1}$$

1.1.1 Here is a subsubsection

You can align equations as follows:

$$x = y \tag{1}$$

$$x^2 = y^2 \tag{2}$$

You can also remove the equation numbers by adding an asterisk:

$$x = \frac{1}{2}$$
$$x^2 = \left(\frac{1}{2}\right)^2$$

Lemma 1. This is a lemma

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

Table 1: The caption

Name	Meaning	Symbol	LaTeX
Empty set	The set containing zero elements	∅ OR {}	\emptyset
In	a is an element of b	$a \in b$	\in
Not in	a is not an element of b	a∉b	
Subset	All elements of a are in b	$a \subseteq b$	\subseteq
Proper subset	A is a subset of b but not equal to b	$a \subset b$	\subset
Universal set	Set of all possible elements	U	
Union	Elements in either A or B or both	$A \cup B$	
Intersection	Elements in both A and B	$A \cap B$	
Set difference	Elements in A that are not in B	A - B	
Complement (sets)	Set difference U - A	Ā or A ^c	
Power set	Set of all possible subsets of A	P(A)	
Cardinality	Number of distinct elements in A	A or card(A)	