My Document Title

Your Name

October 4, 2025

1 Headings and Paragraphs

This is the first section. Sections are the highest level of organization. You can write your main paragraphs directly under the section title. This is a placeholder paragraph to demonstrate how text flows. The quick brown fox jumps over the lazy dog.

1.1 This is a Subsection

Subsections help you break down a major section into smaller, more manageable parts. Notice the numbering automatically becomes 1.1, 1.2, etc. This is another placeholder paragraph.

1.1.1 This is a Subsubsection

For even finer detail, you can use a subsubsection. The numbering continues to nest. This is the final level of numbered headings in the standard article class.

2 Creating Lists

Here we demonstrate how to create lists with the specific spacing you requested.

2.1 Itemized (Bulleted) Lists

The itemize environment creates a bulleted list. We add [itemsep=5pt] to add 5 points of vertical space between the main bullet points, as per your "red line" rule.

- This is the first main item in the list.
- This is the second main item. Notice the space between this and the first item.
 - This is a nested item. Nested lists have their own default spacing.
 - This is another nested item.
- This is the third main item.

2.2 Enumerated (Numbered) Lists

The enumerate environment works the same way but creates a numbered list. We can apply the same custom spacing.

- 1. This is the first numbered item.
- 2. This is the second numbered item, showing the 5pt spacing.
- 3. And this is the third.

3 Writing Mathematics

LaTeX is famous for its beautiful math typesetting.

3.1 Inline and Display Math

You can place math directly within a line of text (inline math) by wrapping it in single dollar signs, like this: $E = mc^2$. This is useful for simple variables and equations.

For more complex or important equations, use a display math environment. The align* environment (from the amsmath package) is excellent for this. It centers the equations and allows you to align them neatly at the equals signs (using the & character). The asterisk (*) prevents equation numbering.

$$f(x) = x^2 + 2x + 1$$
$$g(x,y) = \frac{\sqrt{x^2 + y^2}}{x - y}$$
$$\int_0^\infty e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

4 Images and PDFs

Here is how you can include external files like images and other PDFs.

4.1 Including an Image

To include an image, it's best to place it inside a figure environment. This allows LaTeX to place it nicely and lets you add a caption.

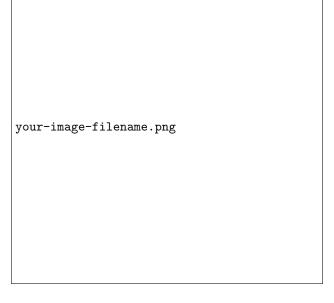


Figure 1: This is the caption for the image.

4.2 Including a PDF

To include another PDF document, use the includepdf command from the pdfpages package.

- The command below will insert all pages from the specified PDF file at this point in the document.
- IMPORTANT: The PDF file must be in the same folder as this .tex file.
- You must replace "Your-PDF-Filename.pdf" with the actual name of your PDF file.

width=!,height=!,pages=-