

An example document

A. Student

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1 Simple section

Sections are numbered automatically¹, and the section heading is generated for each section. An empty line (or more) indicates to L^AT_EX that a new paragraph has started.

Text can be typeset in **boldface** or *italicized*. Mathematical typesetting for things like x , \mathbf{x} , \mathbf{A}^T is activated by using the dollar signs.

2 Another section

We can also have a *displayed equation*, which is centered on the page (not inline with text) and numbered:

$$y = f(\mathbf{x}). \tag{1}$$

Note that we can refer to (1) by referencing the label, so we don't have to manually keep track of numbering.

We can also have an unnumbered displayed math:

$$h = g(\|\mathbf{v}\|; \{\theta, \Sigma\}, \dots, \mathbf{\Lambda}),$$

which also demonstrates the use of Greek letters.

¹As are footnotes

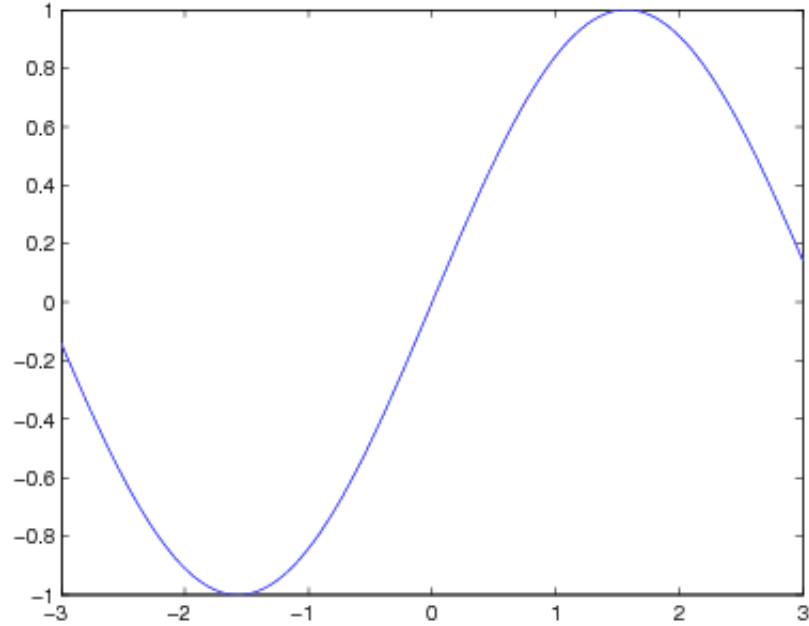


Figure 1: A figure with some graph, referenced in Section 3.

Unnumbered section

Here is how to make a multi-line equation, nicely aligned by the equality sign. Note how we can suppress numbering of some of the lines.

$$y = f_1(x^a) \tag{2}$$

$$= f_2(x_{b+1})$$

$$= f_3 \left(\exp \left(\frac{1}{n+3} \right) \right). \tag{3}$$

3 Figures

Figure 1 is an example of how one can include graphics in the document

4 Tables

A simple talbe 1 demonstrates how to include those.

| | | | |
|-------------------------------|---------|------------------|---|
| aa an entry (left-flushed) | bb b | cc c | dd $d^{\sin(x)}$ |
| another one | f | some longer text | $y = \begin{cases} 1 & \text{if } a = b, \\ 0 & \text{otherwise} \end{cases}$ |

Table 1: A table with some nonsense, unrelated to Figure 1.

5 More math

Here is a simple matrix:

$$\mathbf{C} = \begin{bmatrix} 1 & 3 & 4 & 11 \\ 0 & \dots\dots & 15 \\ -10 & 12 & 25 & 22 \end{bmatrix}$$