

My first document

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2020-04-11

# 1 Section

Structuring a document is easy!

## 1.1 Subsection

More text.

**Paragraph** Some more text.

**Subparagraph 1** Even more text.

# 2 Another section

Here a simple equation:

Here a simple equation without number:

$$f(x) = x * x$$

$$f(x) = x^2 \tag{1}$$

In text you can also include a formula wrapping it in dollar symbols e.g  $a^2$

# 3 Math

You can add equations with an environment as well.

$$A = Z + 2 \tag{2}$$

If you have a expression with multiple equations you can align them

$$A + 1 = 2 \tag{3}$$

$$B + A = 3 + 1 \tag{4}$$

## 3.1 More math expressions

$$\begin{aligned} f(x) &= x^2 \\ g(x) &= \frac{1}{x} \\ F(x) &= \int_b^a \frac{1}{3} x^3 \end{aligned}$$

$$\frac{1}{\sqrt{x}}$$

## 4 Matrices

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \quad (5)$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} (\sqrt{1} + 2) \quad (6)$$