

my title

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## 1 title of Section

Hello World!

### 1.1 subsection

a subsection

#### 1.1.1 subsubsection

a subsubsection

**paragraph** this is a paragraph

**subparagraph** this is a subparagraph

## 2 Another section

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

$$f(x) = x^2$$

## 3 inline math

formula:  $f(x) = x^2$

$$1 + 2 = 3$$

$$1 = 3 - 2$$

align environment will align the equations at the ampersand  
single formulas must be seperated with two backslashes

$$f(x) = x^2$$

$$g(x) = \frac{1}{\sqrt{x}}$$

$$F(x) = \int_b^a \frac{1}{3}x^3$$

Matrices only work within math dollar signs  $\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\left(\frac{1}{\sqrt{x}}\right)$$

$$\lambda$$

## 4 pictures



Figure 1: A boat.

Figure 1: A boat.

Figure ?? shows a boat.



(a) Coffee.

(b) More coffee.

Figure 2: The same cup of coffee. Two times.

## Contents

### 5 section

Dummy text

#### 5.1 subsection

Dummy text