

# Latex Assignment

## Exploration and Presentation

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### Contents

<b>List of Figures</b>	<b>1</b>
<b>1 Testing æ å ø</b>	<b>2</b>
<b>2 Dealing with images</b>	<b>2</b>
<b>3 Dealing sections</b>	<b>4</b>
3.1 Dealing with text . . . . .	4
<b>4 Dealing with input</b>	<b>4</b>
<b>5 Dealing with include</b>	<b>5</b>
<b>6 Dealing with lists</b>	<b>6</b>
<b>7 Dealing with tables</b>	<b>6</b>
<b>8 Dealing with code</b>	<b>6</b>
<b>9 Dealing with math equations</b>	<b>7</b>
<b>10 Dealing Bibliography</b>	<b>7</b>
<b>Bibliography Reference</b>	<b>7</b>

### List of Figures

1	Caption over image . . . . .	3
2	Caption under image . . . . .	3
3	Caption for figure with 2 images . . . . .	3

## 1 Testing æ å ø

Dealing with Æ, æ, Å, å, Ø and ø.

## 2 Dealing with images



Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper. In figure 3a on page 3

Figure 1: Caption over image



Figure 2: Caption under image



(a) Caption1

(b) Caption2

Figure 3: Caption for figure with 2 images

### 3 Dealing sections

Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Move sections to their only file for include

#### 3.1 Dealing with text

**This is a paragraph test**

**This is a subparagraph test** Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper. In figure 3a on page 3

### Dealing with unnumbered sections

Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

### 4 Dealing with input

Testing if the sections is inputted on the page correctly.

## 5 Dealing with include

Testing if the sections is included correctly.

## 6 Dealing with lists

### unordered list

- One entry in the list
- Another entry in the list

### ordered list

1. The labels consists of sequential numbers.
2. The numbers starts at 1 with every call to the enumerate environment.

### nested list

1. The labels consists of sequential numbers.
  - The individual entries are indicated with a black dot, a so-called bullet.
  - The text in the entries may be of any length.
2. The numbers starts at 1 with every call to the enumerate environment.

## 7 Dealing with tables

The table 1 is an example of referenced L<sup>A</sup>T<sub>E</sub>X elements.

make more  
advanced  
tables

Header				
Col1	Col2	Col3	Col4	Col5
cell1	cell2	cell3	cell4	cell5
cell6	cell7	cell8	cell9	cell10
cell11	cell12	cell13	cell14	cell5
cell16	cell17	cell18	cell19	cell20
cell21	cell22	cell23	cell24	cell25

Table 1: Table to test captions and labels

## 8 Dealing with code

```
class Simple{  
    public static void main(String args[]){  
        System.out.println("Hello Java");  
    }  
}
```

## 9 Dealing with math equations

The well known Pythagorean theorem  $x^2 + y^2 = z^2$  was proved to be invalid for other exponents. Meaning the next equation has no integer solutions:

$$x^n + y^n = z^n$$

As you see, the way the equations are displayed depends on the delimiter, in this case `[ ]` and `( )`.

$$\frac{1}{2}$$

$$\frac{2}{x+2}$$

$$\frac{1+\frac{1}{x}}{3x+2}$$

$$\sqrt{3}$$

$$\sqrt{x+\frac{1}{2}}$$

$$\sqrt[3]{3}$$

$$\sum_{i=1}^{\infty} \frac{1}{i}$$

$$\prod_{n=1}^5 \frac{n}{n-1}$$

<https://artofproblemsolving.com/wiki/index.php/LaTeX:Commands>

## 10 Dealing Bibliography

Let's cite! The Einstein's journal paper [1] and the shakespeare1974riverside's book [2] are physics related items.

### Bibliography Reference

- [1] Albert Einstein. "Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]". In: *Annalen der Physik* 322.10 (1905), pp. 891–921. DOI: <http://dx.doi.org/10.1002/andp.19053221004>.
- [2] William Shakespeare et al. *The Riverside Shakespeare*. Vol. 1. Houghton Mifflin Boston, 1974.