Your Title

Y.O. Urname

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Exercise 1

The exercises are automatically numbered, starting from one. Packages such as amsmath and hyperref are included by default.

Paragraphs are not indented, but are instead separated by some vertical space.

As an example: the *standard inner product* on \mathbb{R}^n is defined as

$$\vec{a} \cdot \vec{b} := a_1 b_1 + \dots + a_n b_n$$
 for $\vec{a}, \vec{b} \in \mathbb{R}^n$.

Note that * can be used instead of \cdot, and \R instead of \mathbb{R}. (For a normal asterisk, use \ast.) Of course, there are also macros for the natural numbers etc. Commands such as \abs{} and \set{} can be used to create (scaled) delimiters. For example,

$$\left| \frac{1}{1 - \lambda h} \right| \le 1$$
 and $\left\{ x \in \mathbb{R} \mid 1 < \sqrt{x^3 + 2} < \frac{3}{2} \right\}$.

The starred version of these commands disables the auto-scaling.

Exercise 2

Each exercise (except the first) starts on a new page. You can disable this behavior using the starred version of the command.

Exercise 3 (10 pts)

Optionally, you can specify the number of points for an exercise.

For more information, refer to https://github.com/gijs-pennings/latex-homework.