Your Title

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Exercise 1

Exercises are automatically numbered, starting from one. Convenient packages such as amsmath and hyperref are included by default.

Instead of being indented, paragraphs are separated by some white space.

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*.

Now, let's consider a mathematical example.

Definition 2.1 — The *standard inner product* of two vectors $\vec{x}, \vec{y} \in \mathbb{R}^n$ is defined as

$$\vec{x} \cdot \vec{y} := x_1 y_1 + \dots + x_n y_n.$$

Next to definitions, environments for theorems and lemmas are included as well. Furthermore, you can easily define your own with the \NewTheorem command.

$$\left| \frac{1}{1 - \lambda h} \right| \le 1$$
 and $\bigcup_{i=1}^n \left\{ z \in \mathbb{C} \mid |z - a_{ii}| \le \sum_{j \ne i} |a_{ij}| \right\}.$

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

Exercise Rec-2.1

Optionally, you can fully customize the numbering of each exercise \dots

Exercise 8

 \dots or skip a few, using the \setcounter{exercise}{x} command.

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