Performance Evaluation Homework 1

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1 Assignment

ically numbered, starting from one. Essential 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.

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

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

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

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