

The Title of The Paper

Dedicated to Professor X on the occasion of her Nth birthday

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ABSTRACT. You can customize the numbering system of theoremlike-environments (theorems, propositions, definitions, remarks, etc.), and equations, figures, tables, by changing the preamble of this sample file `sampleHMJ.tex`.

1. Introduction

The name of this file is `sampleHMJ.tex`.

THEOREM 1.1 (Saburo's Theorem). *In this sample file, theorem-like environments are numbered with the section number.*

PROPOSITION 1.2. *In this sample file, different theorem-like environments use the same counter; that is, they are numbered consecutively.*

You can change the system of numbering of theorem-like environments by changing the preamble of the sample file. (The current preamble is given in Figure 1.1.)

LEMMA 1.3. *In this sample file, equations are numbered with the section number. Hence we have*

$$A = A \tag{1.1}$$

and

$$B = B. \tag{1.2}$$

You can also change the system of numbering of equations, tables, figures, by changing the preamble of the sample file. See Figure 1.1.

2. A new section

2.1. A subsection.

DEFINITION 2.1. Here is a definition. The environment `definition` is in `\theoremstyle{definition}`.

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```

\theoremstyle{plain}
\newtheorem{theorem}{Theorem}[section]
\newtheorem{remark}[theorem]{Remark}
\newtheorem{proposition}[theorem]{Proposition}
\newtheorem{lemma}[theorem]{Lemma}
\newtheorem{corollary}[theorem]{Corollary}
\newtheorem{assumption}[theorem]{Assumption}
%
\theoremstyle{definition}
\newtheorem*{proof}{Proof}
\newtheorem{definition}[theorem]{Definition}
%
\numberwithin{equation}{section}
\numberwithin{table}{section}
\numberwithin{figure}{section}

```

FIGURE 1.1. Current preamble of the sample file

COROLLARY 2.2. *Here is a corollary.*

PROOF. This is the proof environment. The command `\qed` is available. □

REMARK 2.3. *The environment `remark` is in `\theoremstyle{theorem}`.*

2.2. Various commands. The following commands are available.

- `\hmjlogo`: The logo at the top-left of the first page. Please put this command without arguments as `\hmjlogo{}{}{}{}`.
- `\title`: The title of your paper. `\title[short title]{long title}`. The short title is optional.
- `\date`: Print (received Xxx 00, 0000) under the author's name. This will be handled later by an editor.
- `\grants`: Grants information.
- `\subjclass`: AMS 2020 Mathematics Subject Classification. See AMS webpage ([http://www.ams.org/msc/.](http://www.ams.org/msc/))
- `\author`: The author's name. `\author[short name]{long name}`. The short name is optional.
- `\address`: The address is printed at the last page of the paper. Use `\\` to break line.
- `\curraddr`: The author's current address.
- `\email`: The author's e-mail address.
- `\keywords`: Keywords.

Acknowledgments

For the acknowledgments, please use the environment

```
\begin{acknowledgments}... \end{acknowledgments}.
```

References

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