Lecture 1 XXX

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Disclaimer: *This homework has not been subjected to the usual scrutiny reserved for formal publications.*

1.1 Section 1

Using `definition`:

```
\begin{definition}[label=def]{}{}
  This is the text of the theorem. The counter is automatically assigned and,
  in this example, prefixed with the section number.
\end{definition}
```

> **Definition 1.1**
> This is the text of the theorem. The counter is automatically assigned and, in this example, prefixed with the section number.

Use `theorem`[similar for corollary, lemma, claim, proporsition]:

```
\begin{theorem}[label=thm]{ABC}{}
  This is the text of the theorem. The counter is automatically assigned and,
  in this example, prefixed with the section number.
\end{theorem}
```

> **Theorem 1.2: ABC**
> This is the text of the theorem. The counter is automatically assigned and, in this example, prefixed with the section number.

Use `remark`[similar for example]:

```
\begin{remark}[label=re1]{}{}
  This is the text of the theorem. The counter is automatically assigned and,
  in this example, prefixed with the section number.
\end{remark}
```

> **Remark 1.3**
> This is the text of the theorem. The counter is automatically assigned and, in this example, prefixed with the section number.

1.2   Section 2

> **Lemma 1.4**
> This is the text of the theorem. The counter is automatically assigned and, in this example, prefixed with the section number.

> **Example 1.5**
> This is the text of the theorem. The counter is automatically assigned and,
> -
> in this example, prefixed with the section number.

> **Remark 1.6**
> This is the text of the theorem. The counter is automatically assigned and, in this example, prefixed with the section number.

1.1,1.6,1.2,1.4,1.5,1.3