

# A proof environment, as an exercise together with its WhizzyT<sub>E</sub>X companion

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April 30, 2008

This is a short, self-documented article with lemmas and proofs. Please read the source under WhizzyT<sub>E</sub>X and the output at the same time.

Just move the cursor down the file in and out of proofs environment. You may also see the self-documented article `exercise.tex` from the distribution.

```
\newtheorem{lemma}{Lemma}  
\newtheorem{theorem}{Theorem}
```

**Lemma 1** *This is the first lemma.*

Some short comment on the lemma.

(Proof p. 2)

The text continues after the proof.

**Lemma 2** *This is the second lemma.*

Some short comment on the lemma.

(Proof p. 2)

The text continues after the proof.

**Theorem 1** *This is the second lemma.*

Its proof is a bit shorter.

(Proof p. 3)

The text continues after the proof.

**Lemma 3** *Another lemma, without a proof.*

**Lemma 4** *Yet another lemma, with its proof.*

(Proof p. 3)



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That ends here. ■

### **Proof of Theorem 1**

This is the proof of the previous lemma. This is the proof of the previous lemma. ■

### **Proof of Lemma 4**

It the numbering right? ■