

Homework Title

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1. Here is an exercise.

Theorem Label. Here is a theorem.

Proof. Here is a proof. See the little box at the end?

□

Lemma Label. Here is a lemma too.

The **reflection**, **proposition**, and **corollary** environments work the same way.

2. Here is another exercise. Some nifty math shortcut commands are:

- Set of natural numbers: \mathbb{N}
- Set of integers: \mathbb{Z}
- Probability: $\Pr(A)$

See `homework.sty` if you want to add more similar shortcuts.

Say you want to highlight some text. These commands make it **very easy to do so**. If you want to highlight text in a math environment:

$$a^2 + b^2 = c^2 \quad (\text{see? easy.})$$

See `homework.sty` if you want to add more colors.