

# Title

Author

Hello world!

► **Theorem 1.** *This is a great result. It has an equation:*

$$\sum_{k=1}^{\infty} \frac{1}{k^2} = \frac{\pi^2}{6} \quad (1)$$

The equation number is (1).

**Proof sketch.** This is the proof sketch of Theorem 1. ◀

## 1 Section without Theorems

Since this section does not have any appendix content, it will not appear in the appendix.  
[1]

## 2 Section with Some Appendix Content

► **Example 2.1.** *Examples are numbered within a section.*

Not much in the main text.

## 3 Section with Theorems (long)

► **Theorem 2.** *Another great result.*

**Proof sketch.** Proof sketch of Theorem 2. ◀

► **Theorem 3.** *Another great result, without any proof sketch.*

► **Theorem 4.** *A regular theorem, not repeated.*

**Proof.** This regular theorem is naturally followed with an inline proof. ◀

► **Theorem 5.** *A repeated theorem, but with two proofs, one in Appendix and one in main text.*

**Proof.** Main text proof of Theorem 5. ◀

## 4 Last Section

► **Theorem 6 (with note).** *Another theorem.*

► **Theorem 7.** *Last theorem, not repeated.*

**Proof.** Proof, inlined. ◀

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## References

- 1 Sergey Brin and Lawrence Page. The anatomy of a large-scale hypertextual Web search engine. *Computer Networks*, 30(1–7):107–117, April 1998.



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► **Theorem 1.** *This is a great result. It has an equation:*

$$\sum_{k=1}^{\infty} \frac{1}{k^2} = \frac{\pi^2}{6} \quad (1)$$

**Proof.** This is the proof of Theorem 1. ◀

## **A** Material for Section with Some Appendix Content (Section 2)

Hello appendix!

## **B** Material for Section with Theorems (long) (Section 3)

► **Theorem 2.** *Another great result.*

**Proof.** Proof of Theorem 2.

For some reason, this proof has an inline Lemma:

► **Lemma 8.** *This is the lemma (numbered following the theorem numbering).*

**Proof.** And this lemma has a proof as well! ◀

This concludes the global proof of Theorem 2. ◀

► **Theorem 3.** *Another great result, without any proof sketch.*

**Proof.** Proof of Theorem 3. It has two references [sit08, BP98]. ◀

► **Theorem 5.** *A repeated theorem, but with two proofs, one in Appendix and one in main text.*

**Proof.** Appendix proof of Theorem 5. ◀

And now for no particular reason, two isolated proofs in the appendix, written in two different ways:

**Proof of a non-existing result.** First with a regular `proof` environment inside a `toappendix` environment. ◀

**Proof.** Second, with the specific `appendixproof` environment (but then, cannot change the proof name). ◀

## **C** Material for Last Section (Section 4)

► **Theorem 6 (with note).** *Another theorem.*

This theorem does not have a proof, but a discussion in the appendix. `apxproof` can figure, because of the `theorem` environment that follows, that the proof of the following theorem is not a proof of this theorem.

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### Appendix References

- BP98** Sergey Brin and Lawrence Page. The anatomy of a large-scale hypertextual Web search engine. *Computer Networks*, 30(1–7):107–117, April 1998.
- sit08** sitemaps.org. Sitemaps XML format. <http://www.sitemaps.org/protocol.php>, February 2008.