

1 The first section

We’ll use the following in Theorem 1.

\[ a = b \] (1)

**Theorem 1.** Equation (1) has nothing to do with (2) or (3). See also Lemma 2.

\[ a^2 = b^2 + c^2 \] (2)

\[ a = \sqrt{b^2 + c^2 - 2bc \cos A} \] (3)

Having had this pointless theorem, why not try for a lemma of similar class.

2 Another section

**Lemma 2.** Theorem 1 (in Section 1) contains two equations. While both are simple, (3) is more complex than (2).

3 The final section

This document includes Sections 1, 2 and 3. Lemma 2 is on page 1.