

1 The first section

We'll use the following in Theorem 1.

$$a = b \tag{1}$$

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

$$a^2 = b^2 + c^2 \tag{2}$$

$$a = \sqrt{b^2 + c^2 - 2bc \cos A} \tag{3}$$

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.