Theorems!

1. Introduction

Lemma 1.1 (Pythagoras) : In a right angled triangle,

$$a^2 + b^2 = c^2.$$

The above theorem is 1.1

Theorem 1.2 (WLLN) : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

Proof : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

$$\int_{-\infty}^{\infty} \frac{\sin(x)}{x}\,\mathrm{d}x = \pi$$

Lorem ipsum dolor sit amet. □

Corollary 1.2.1 : Lorem ipsum dolor sit.

Corollary 1.2.2 : This corollary will be referenced later, in Lemma 2.1.

Example : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lemma 1.3 : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Notation I : Lorem ipsum dolor sit amet.

1.1. Sub-Heading

Definition 1.1.1 : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et.

Notation II : Lorem ipsum dolor sit amet, consectetur adipiscing.

Example (Lorem ipsum dolor.) : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Remark : Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Theorem 1.4 : Lorem ipsum dolor sit amet, consectetur.

Proof 1.4.1 : Lorem ipsum dolor sit. □

Proof 1.4.2 : Lorem ipsum dolor sit amet. □

2. Heading

Lemma 2.1 : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut. Refer to Corollary 1.2.2.

Remark : Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Corollary 2.1.1 (Lorem ipsum dolor sit.) : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.

Example 2.1.1.a : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

Example 2.1.1.b : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Notation III : Lorem ipsum dolor sit amet.