

## 1. INTRODUCTION

**Theorem 1.1.** *This is Theorem 1.1. This is because the `\numberwithin{equation}{section}` makes the section number included in the equation counter and because the `\newtheorem{theorem}[equation]{Theorem}` command makes the environment `theorem` be counted by the equation counter.*

The following makes an equation labeled 1.2;

$$(1.2) \qquad 5 + 7 = 12$$

**Theorem.** *This Theorem is unnumbered*

**Corollary 1.3.** *This is Corollary 1.3.*

## 2. ANOTHER SECTION

**Theorem 2.1.** *This is theorem 2.1*

The following is labeled 2.2:

$$(2.2) \qquad 3 + 5 = 8.$$