

## DEPT 101 (Class)

April 1, 2022

# 1 Section

## 1.1 Subsection

**Definition 1.1.1**

This is a **definition**.

**Lemma 1.1.2**

This is a lemma.

$$a + b = c. \tag{1.1.1}$$

**Note.** This is a note.

**Theorem 1.1.3: Theorem**

This is a named theorem.

$$c = a + b. \tag{1.1.2}$$

*Proof.* Left as an exercise. □

**Example 1.1.4.** This is an example:  $a = 1$ ,  $b = 2$ , and  $c = 3$ .

**Corollary 1.1.5**

This is a corollary.

$$c - b = a. \tag{1.1.3}$$

*Proof.* Subtracting  $b$  from both sides of (1.1.2), we have

$$\begin{aligned} c - b &= a + b - b \\ &= a. \end{aligned} \tag{1.1.4}$$

□

## 1.2 Another subsection

**Theorem 1.2.1: Another**

This is another theorem.

**Remark.** This is a remark.

# 2 Another section

## 2.1 Subsection of another section

**Lemma 2.1.1**

This is another lemma.