

# Assignment 1

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Course: Course Name §123  
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**Exercise 1.2.3.** Exercise text

*Solution.* Your answer here.

**Exercise 1.** Exercise text

*Proof.* Your proof here.

You may want to write an induction proof. You can use the induction commands as follows:

Base case

This is your base case.

Induction hypothesis

This is your induction hypothesis.

Induction step

This is your induction step.

Thus by the principle of mathematical induction, we have proven our theorem. ■

**Exercise.** Exercise text

*Solution.* Your solution here.

**Theorem 1.** *This is a theorem.*

*Proof.* Your proof here. ■

**Lemma 2.** *This is a lemma.*

*Proof.* Your proof here. ■

**Corollary 3.** *This is a corollary.*

*Proof.* Your proof here. ■

**Definition 4.** This is a definition.