Late Template

Homework 1

Solutions written by [Name]

EXERCISE 1. Prove something.

Proof. This is a proof.

Remark 1. The above was a proof.

Definition 1. This is a definition.

Theorem 1. This is a theorem.

Proof. This is a proof of the above theorem.

Lemma 1. Theorems are almost always followed by a proof.

Corollary 1. Proofs are fun to write.

This is framed text. You can put something important inside here.

Here is some red text. We can also use orange text, or possibly blue text. How about purple text?

Here is an inline equation: $\sum_{i=0}^{n} i = \frac{n(n+1)}{2}$. Did you know I can type in courier?

Here is a piecewise function:

$$|x| = \begin{cases} x & \text{if } x > 0\\ 0 & \text{if } x = 0\\ -x & \text{if } x < 0 \end{cases}$$

Here is a matrix:

$$\mathbf{A} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

1

Here is a list:

- Here is an item.
- Here is another item.

Here is a *numbered* list:

- 1. Here is an item.
- 2. Here is another item.

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